



GUJARAT INFORMATICS LIMITED
BLOCK NO.-1, 8TH FLOOR, UDYOG BHAVAN, SECTOR-11, GANDHINAGAR

REVISED BID DOCUMENT dated 04.10.2012

Name Of Project: Selection of Agency for Supply, Installation and Commissioning of Voice & Data Distribution, IP Video Surveillance/ CCTV System and Access Control System including development of Application Software for Sports complex Gymkhana, Gandhinagar on behalf of Secretariat Gymkhana, Road & Building Department, Gandhinagar.

RFP NO: GIL\R&B\GYMKHANA\2012-13

DATE: 15.09.2012

Client: Secretariat Gymkhana, Road & Building Department, Govt. Of Gujarat.

Pre-Bid Meeting Date: 26.09.2012 on 1500 hrs

Bid due date: 11/10/2012 up to 1700 hrs

EMD & Bid Processing fees Submission At:

Gujarat Informatics Ltd, Block No. 1, 8th Floor,
Udyog Bhawan, Sector-11, Gandhinagar-382010
E-mail: info@gujaratinformatics.com

Un-priced Bid Opening:

Date & Time: 12/10/2012 at 1500 hrs

Venue: Block No. 1, 8th Floor,
Udyog Bhavan, Sector-11,
Gandhinagar-382010

Bidding Agency Address:

Gujarat Informatics Limited
Block No. 1, 8th Floor,
Udhyog Bhavan, Gandhinagar-382010
Phone: 23256022 Fax: 23238925
E-mail: info@gujaratinformatics.com
Website: www.gujaratinformatics.com

Note: Please address all queries and correspondence to

Sr. Manager (FM)
Gujarat Informatics Limited,
8th Floor, Block No.1, Udyog Bhavan,
Gandhinagar 382010
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E-mail: info@gujaratinformatics.com; viveku@gujarat.gov.in



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SECTION: 1

PROJECT PROFILE



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SECTION – 1

PROJECT PROFILE

1.0 Introduction

- GIL (Gujarat Informatics Limited), on behalf of Secretariat Gymkhana, Roads & Buildings Department, Government of Gujarat invites the bid for Selection of Agency for carrying out Supply, Installation and Commissioning of Voice & Data Distribution network, IP Video surveillance/ CCTV system for campus security and Access Control System including development of Application Software for Sports complex Gymkhana, Gandhinagar.
- The selected Agency shall be fully capable and experienced in the work of carrying out Data & Voice Distribution and Video Surveillance/ CCTV system & Access Control System including Application Software.
- The Selected Agency must have trained and certified manpower including technicians capable of carrying out this job. The agency is required to deploy the trained & experienced manpower for this project.
- Proposal in the form of BID are requested for the item(s) in complete accordance with the documents/attachments as per following guidelines.
- The bid shall specify time schedule of various activities.
- GIL invite 3 stages Bids (Eligibility, Technical & Commercial Bid) for Selection of agency for Supply, Installation and Commissioning of Voice & Data Distribution, IP Video surveillance/ CCTV system and Access Control System including development of Application Software for Sports complex Gymkhana, Gandhinagar on behalf of Secretariat Gymkhana, Road & Building Department, Gandhinagar.

Interested and eligible bidders can upload the bids.

- Technical and Commercial Bids are invited from the eligible parties, to participate in the electronic bidding process.
- Interested and eligible Bidders are required to upload the eligibility related document in eligibility bid section, Technical related document in technical bid section & Commercial Bid in commercial bid section. The Bids should be accompanied by a bid security & bid processing fees (non-refundable) as specified in this Bid Document. The Eligibility, Technical & Commercial Bid must be uploaded to <https://gil.nprocure.com> & the Bid Security and bid processing fees must be delivered to the office of Gujarat Informatics Ltd on or before the last date and time of submission of the bid.
- The eligibility section and the Bid Security & bid processing fees section will be opened on the specified date & time in presence of the Bidders or their authorized representative who choose to attend.

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- Services offered should be strictly as per requirements mentioned in this Bid document. Please spell out any unavoidable deviations, Clause/ Article-wise in your bid under the heading Deviations.
- Once quoted, the bidder shall not make any subsequent price changes, whether resulting or arising out of any technical/commercial clarifications sought regarding the bid, even if any deviation or exclusion may be specifically stated in the bid. Such price changes shall render the bid liable for rejection.
- Bidder shall quote the prices of services as mentioned valid **for 180 days**.
- In addition to this RFP, the following sections attached are part of Bid Document

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IMPORTANT DATES

1	BID REFERENCE	GIL\R&B\GYMKHANA\2012-13
2	Date of Pre-Bid Meeting	26\09\2012 on 1500 hours
3	Venue of Pre-Bid Meeting	Gujarat Informatics Limited Bloc k No. 1, 8th Floor, Udyog Bhavan, Gandhinagar-382010 Phone :23256022 Fax: 23238925 website: www.gujaratinformatics.com
4	Last date & Time for submission of Bids	11\10\2012 up to 1700 hours
5	Date & Time of opening of EMD & Eligibility stage	12\10\2012 at 1500 hour
6	Date & Time of opening of Technical Stage & Commercial Stage	Will be intimated to the qualified bidders at a later date.
7	Venue of opening of Technical and Commercial Bid/s	Gujarat Informatics Limited, Bloc k No. 1, 8th Floor, Udyog Bhavan, Gandhinagar-382010 Phone :23256022 Fax: 23238925 website: www.gujaratinformatics.com
8	GIL Contact Person	Sr. Manager (FM)
9	Bid Processing Fees (non-refundable)	Rs. 5000/- (Rupees five thousand only)
10	Bid Security	Rs. 2,00,000/- (Rupees two lacs)



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SECTION: 2

ELIGIBILITY CRITERIA



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SECTION - 2

ELIGIBILITY CRITERIA

Eligibility Criteria for the bidder:

1. The bidder must have a sum total of Rs. 5 Crores of audited turnover for the past three years (2009-10, 2010-11 & 2011-12). **(Form – E1)**. Please attach the copies of annual audited accounts for the last three financial years.
2. The Bidder should have at least 3 years experience in setting up LAN /WAN , and should have installed minimum 5 LAN / WAN systems with minimum 100 nodes installed and operational in the same campus or different campus. Bidder should have experience of executing CCTV/ surveillance system at least 1 customer reference sites of CCTV camera & related accessories installation. Bidder should have at least 1 PO for Integrated Data Network involving the IP camera & Access Control System. Copies of Purchase orders and Certificates of Successful Completion from Customer should be submitted. Experience details should be given in the **Form-E2**.
3. The bidder should have local presence and should have office in Gujarat. The bidder should have service support infrastructure to provide warranty and post warranty services. The details of such service support infrastructure must be enclosed. Please attach the copy of any of one of the following: Property tax bill/Electricity Bill/Telephone Bill/G.S.T.-C.S.T. Registration/ Lease agreement etc. **(Form-E3)**
4. The Bidder should have at least 10 skilled engineers / Manpower with Experience. Information about educational qualifications, and experience details and P.F. no. along with the projects they have handled should be provided with the bid. **(Form-E4)**
5. The Bidder should attach Authorization certificate from the OEM of the H/W to be used in this work, for the authenticity, authorized representation and after sales support **(Form-E5)**. For items line HDPE pipes, Casing & Capping, Race Way, Telephone Instrument, PVC pipe, bidder can submit the authorization certificate from authorized distributors.
6. Copies of original documents defining the constitution on legal status, place of registration and principle place of business of the company or firm or partnership etc. Bidder shall be in the business of networking for at least three years. Copy of company incorporation / registration certificate of the firm shall be attached as proof Bidder must submit copies of his central and local VAT & Service tax registration certificates, PAN number of office and Copies of last 3 years income-tax return.

Note: All the details and the supportive documents for the above mentioned items should be submitted.

SECTION: 3

SCOPE OF WORK



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Section - 3

SCOPE OF WORK

The selected Agency is required to Supply, Installation and Commissioning of Voice & Data Distribution, IP Video surveillance/ CCTV system for campus security and Access Control System including development of Application Software for Sports complex Gymkhana, Gandhinagar on behalf of Secretariat Gymkhana, Road & Building Department, Gandhinagar.

- A. Voice & Data Distribution and TV Distribution
- B. IP Video Surveillance/ CCTV System for campus security
- C. IP based Access Control System
- D. Development of Web Based Application Software for Gymkhana Management

The scope of complete work would broadly be: design, engineering, supply, testing, installation, integration, commissioning & maintenance of all project deliverables.

A. VOICE & DATA DISTRIBUTION AND TV DISTRIBUTION

Bidder will be responsible to undertake and complete the works related to supply, installation and commissioning of services as indicated in the bid and within the duration prescribed in the bid. The bidder has to lay the cable for voice & data distribution as per the diagram given in **Section 9** of this RFP.

The bidder will have to submit layout diagram indicating the location of equipment to be installed to Secretariat Gymkhana for approval before implementation. The bidder has to take approval of Schematics diagram (Layout) within 15 days for Cabling & laying work of DATA & Voice Distribution, CCTV & Access Control system & TV Distribution

The Bidder is requested to visit the site(s) before submission of their offer for any other clarification/ measurements for finalization of scope of work/ supply before submission of their bid offer and the logical diagram of connectivity network would be submitted by successful bidder(s).

It is envisaged that the bidder has understood the requirement fully and shall comply with the technical & functional requirements of the offered system including the scope of work/ services.

- ✓ Complete installation shall be done in accordance with installation practices for a well structured cabling system, using components from a single vendor to ensure consistent and assured performance. The structured cabling distribution network shall serve as a vehicle for transport of data, video and voice telephony signals throughout the network.
- ✓ Installation, termination and identification of wiring between station outlets, Telecom Rooms and the Equipment Room shall be considered part of the Successful Bidder work.
- ✓ Wiring utilized for data and voice communications shall originate at owner provided hubs and concentrators either wall mounted, in vertical free standing equipment racks, and/or enclosed wall mounted vertical equipment racks located at the Telecommunications Equipment Room (ER), the Main Cross-connect (MC), the Intermediate cross-connect (IC), and/or the Telecommunications Room (TR) location(s). Wiring, terminations and patch bays between these designated demarcation points and outlet locations designated on the plans shall be considered part of the contract. Telecommunication Outlets (TO) shall be furnished, wired and installed by the structured cabling distribution network system contractor.
- ✓ The system shall utilize a network of fiber optic, and unshielded twisted pair, riser, tie and station cables. Cables and terminations shall be provided and located as shown and in the quantities indicated on the drawings.

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- ✓ All cables and terminations shall be identified at all locations.
- ✓ All cables shall terminate in an alphanumeric sequence at all termination locations.
- ✓ All balanced twisted pair cable terminations shall comply with, and be tested to TIA/EIA568-B standards for Category 3, Category 5e, Category 6 & Category 6A installations.
- ✓ The Successful Bidder carrying out the Supply, Installation, Testing & commissioning (SITC) shall make the system entirely operational for its intended use, by addition of components specific to its make/model even if not specifically mentioned in the BoQ. Also most current versions of software and applications shall be provided by the Successful Bidder, as applicable at the time of execution and commissioning.
- ✓ The Successful Bidder has to furnish working drawings and as-built drawings, which shall be an essential component of commissioning.

Minimum Supported Applications,

- ✓ Ethernet Applications
- ✓ IEEE 802.3af Data Terminal Equipment (DTE) Power via Media Dependent Interface (MDI)
- ✓ IEEE 802.11a/b/g Wireless LAN Applications
- ✓ Digital Subscriber Loop (DSL) Applications
- ✓ Voice, Video and ISDN Applications
- ✓ Building Automation Systems (BAS) Applications

Minimum References & Standards

- ✓ TIA / EIA
- ✓ International Electro technical Commission (IEC)
- ✓ European Committee for Electro technical Standardization (CENELEC)
- ✓ National Fire Protection Association (NFPA)

It shall be the responsibility of the installer and OEM manufacturer to ensure that:

- ✓ The Passive Components of structured cabling distribution network will be free from manufacturing defects in material and workmanship under normal and proper use;
- ✓ All Passive Components in the structured cabling distribution network meet or exceed the relevant component specification of the TIA 568-B series and ISO/IEC 11801: 2002 standards;
- ✓ The structured cabling distribution network compliant channels will meet or exceed the Guaranteed Channel Performance as per relevant standards in the structured cabling distribution network Performance Specifications in effect at the time of installation.
- ✓ The Application Assurance covers the structured cabling distribution network compliant channels to support operations of the application(s) that the system was designed to support.
- ✓ The site will be duly certified by OEM for a period of Twenty years from the date of issuance of the registration certificate or installation, whichever is earlier.

Site Certification:

20 Years warranty on parts and performance on installed networks for copper as well as fiber. Site registration requires with OEM for logical and passive network. This also includes following steps.

- ✓ The first step in certification is site registration.

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- ✓ The network design, which includes logical active network and passive network, has to be approved. This procedure is initiated by filling up a registration form by the installer.
- ✓ A unique number is attached to this registration.
- ✓ The site has to be designed, installed and tested by Installers.
- ✓ The following documentations are required.
 - Logical diagram,
 - Routing diagram,
 - Schematic Diagram
 - Test Report for each point

The successful bidder has to provide on-site warranty for all active components and other equipment as mentioned in RFP

TV DISTRIBUTION

The TV distribution system shall be based on a mix of RG6 and RG11 co-axial cables.

B. IP VIDEO SURVEILLANCE / CCTV SYSTEM FOR CAMPUS SECURITY

1. Supply, Installations, Testing & Commissioning of High performance IP based video surveillance system with cameras having built-in web browser, remote access and remote management, complete with storage solution.
2. The scope is to Supply, Installation, Testing and Commissioning of the entire system end-to-end. The Successful Bidder carrying out the SITC shall make the system entirely operational for its intended use, by addition of components specific to its make/model even if not specifically mentioned in the BoQ. Also most current versions of software and applications shall be provided by the Successful Bidder, as applicable at the time of execution and commissioning.
3. The Successful Bidder has to furnish working drawings and as-built drawings, which shall be an essential component of commissioning.
4. **IP Video Surveillance System:** This shall include the supply, installation, commissioning & testing of Pan/Tilt/Zoom surveillance cameras, Fixed cameras poles/masts and suitable brackets for mounting the cameras, weather-proof enclosures, fixtures, cables, connectors & any other devices/ peripherals required for the proper functioning of various cameras.
5. **Command & Control Center:** This shall include the supply, installation, commissioning & testing of 32" LCD Monitor, Network Video Recorder (NVR server), Server monitors, network switches, keyboard/joystick controller, video management software with adequate user licenses, and 2 KVA online UPS with one hour back up along with cabinets, enclosures, fixtures, cables, connectors and any other devices, peripherals required for the proper functioning of various components. The C&C centre will be located on separate room at the same campus as decided by secretariat gymkhana.

The control room shall have Network Attached Storage (NAS) for achieving storage capabilities inclusive of server hardware along with controllers for camera operation. For monitoring purposes, video monitors / LCD Monitors / video wall shall be set up with suitable mounting arrangements as per user requirements. Facility for viewing and controlling all the cameras as required should be provided.

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6. **System Training:** This shall include providing 1-week system operation & maintenance training to the designated security personnel after the successful commissioning of the project. Appropriate training material should be provided during the training.
7. The Scope of complete work would broadly Design, Engineering, Supply, Testing, Installation, Commissioning, Site Acceptance Test, Training, Documentation, Warranty and Maintenance.
8. **Components of proposed CCTV System:**
 - SMART High Speed Dome Cameras
 - Fixed Cameras
 - Display arrangement
 - Control System
 - Backup Power Supply
9. The successful bidder has to provide on-site warranty for all equipments as mentioned in RFP

C. ACCESS CONTROL SYSTEM

DESCRIPTION

The Access Control System automates the process of tracking employees and visitors/guests/members as they check in and out for work and provide accurate time and leave data for each employee. This helps to increase efficiency and productivity of the organization. Access control secures valuable assets of the organization that depends on having right answers to who, what, where and when. Defining, controlling monitoring entries and exits in each area is necessary for putting right people in right time.

Successful bidder is required to supply the required software, hardware, cabling, install, commission and maintain the entire system and provide operational services at the premises during the warranty period for the proposed proximity card based time/attendance access control system.

- ✓ Supply of required hardware and software of the proximity card based time/attendance access control system as per the specification provided in the bid.
- ✓ Installation and commissioning of the proximity card based system by integrating the required hardware and software.
- ✓ To provide on site training on the operation of the proximity card based time /attendance access control system to administrators and concerned operating staffs.
- ✓ Operational service of the proximity card based time/attendance access control system by deploying one skilled person during the first few week of operation.
- ✓ To generate reports as per the user requirements on a daily, weekly or at the end of a session basis.
- ✓ Maintenance of the system by keeping sufficient spare parts during the warranty period to avoid emergency breakdown.
- ✓ Bidder shall provide management software for controlling and monitoring of card access, alarms and related reports for the usage of proximity cards/ card readers. **One time data entry should be done by bidder. The Volume of data of Maximum 2000 members and approx 15 employees.** Bidder will have to give full training of application software to authorised person/ staff member.
- ✓ After commissioning, services and maintenance as per contract, this shall include all software upgrades and updates for next 2 years from the date of commissioning. To provide free of charge updates and add-on software patches for the proximity access card software.

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- ✓ To provide full network configuration diagrams and full technical specifications of each component for the proposed system.
- ✓ Setup and configure communications between the host server, readers and control panels.
- ✓ Bidder shall provide the services of a factory trained and authorized technician to perform all system software modifications, upgrades or changes. Response time of the technician to the site shall not exceed 4 hours.

Features of Access Control System:

- 1) The system should be having basic information of the person to card is issued.
- 2) The Admin person will be able to configure access to various facilities (mentioned above). The main parameters for access should be start date and end date
- 3) The System will allow pre-paid card in which any member can “deposit” money. This can then be used to pay for various facilities for the member along with his/her guests (after due authorization). Any prepaid or add on card will have only one account of the member. All debits will be done from the account.
- 4) On line validation of account balance before allowing to enter member / Guest.
- 5) While entry access point system will transmit attendance and usage of the facility to account department online.

❖ **ACCESS CONTROLLER (IPBASED) CAPACITY 4/8 DOOR: -**

The device should control a group of one to four/eight access points. These access points, also known as entrances, mainly consist of doors, gates, barriers, turn stiles, revolving doors, mantraps, ID card readers, door opening elements and sensors. The Controller should have LCD display for displaying information and self-controlling send and receive switching.

Functions

- ❖ Storing downloaded data as listed below:
 - Master data
 - Authorizations
 - Access models
 - Display texts
 - Reader configurations
- ❖ Interpretation of transaction data from reader
 - Authorization check
 - Host request
 - PIN code
 - Control/monitoring
 - Denial or door release
 - Switching alarm
 - Door statuses
 - Reader operation statuses
 - Internal alarm statuses
- ❖ Messages to Access Engine
 - Host requests
 - Transaction data for storing
 - Error and malfunction messages
 - Alarm messages
- ❖ Power supply for
 - Readers
 - Door openers
 - Contact current feeds

❖ **PROXIMITY CARD READERS: -**

Proximity card readers are for access control and time attendance. From simple door control to complex networked environment this reader supports full functionality of time attendance and access control.

The reader should have LCD display for displaying information of the Member/Visitor. It should have keypad for password based access.

Date, time and employee/ visitor name verification, and public/private messages can be displayed on the LCD screen of this proximity reader. Employees simply wave their badges in front of the terminal to punch IN or OUT, even when the badge is in the employee's wallet or purse.

Desirable features among others:

- Swipe & Go or IN/OUT modes.
- Name verification displays the card holder's name.
- Programmable function keys that can be set for:
- Type of User (Employees/ Life Member/ Yearly Member/ Corporate Member/ Guest Member)
- Opening doors (with lockout module, relay and electronic door lock)
- Viewing previous punch
- Entering tips
- Public and Private messages, if any.
- The networked access card readers should communicate through Cat 6 cable with the centralized computer in the server room.

PROXIMITY ACCESS CARDS

2000 (two thousand) proximity Access Cards should be provided for next 2 years from the date of commissioning. The actual quantity may vary during the next 2 years from the date of commissioning depending upon the requirement of user. The Secretarial Gymkhana/R&B Department, GoG reserves the right to increase or decrease quantity of card originally specified in the bid without any change in unit price or other terms and conditions. Each card should be easily programmable from the standard software to provide the proper access to the respected employees/ visitors. Each card should also bear the digital photo of the card bearer, including his/her name with the details as decided by user. The payment will be made based on actual ordered quantities of card.

D. WEB BASED APPLICATION SOFTWARE FOR GYMKHANA MANAGEMENT

The proximity card reader software should be bundled with its database system. It should have a user-friendly front-end menu for easy operation of the system to carry out functions like tracking employees and visitors as they check in and out for work, enrollment, attendance management, online help, report generation as per user requirements, backup and restore. The system shall also assure long time performance, cost effective upgrade capability and allow for easy expansion for modification of inputs, outputs and remote control stations.

The bidder can develop application software directly or sub-contract with software Development Company. The successful bidder would be responsible for execution of the application software and comply with scope of work of RFP.

It is expected that the successful bidder will use the expertise of a person/ company who have

manage following sports facilities

1. Swimming
2. Fitness centre
3. One of the following: Tennis, Badminton or Table Tennis.

The bidder is required to provide the Resume of the person/ company in the Technical Section of the bid to whom they proposed to take the services. Bidder is expected to take the services of this minimum 3 domain experts while developing this application & Integration with management systems and club facility.

Desirable features among others:

- The system control at the central computer location shall be under a single software program control, shall provide full integration of all components, and shall be alterable at any time, depending upon the requirements. Reconfiguration shall be accomplished online through system programming, without hardware changes. To provide free of charge updates, alternate and add-on software patches for this Gymkhana Management software for next 1 year.
- Manage time IN and OUT and attendance of all the employees & Visitors.
- The application software integrated with card reader and access control system should have a user friendly GUI (Graphical User Interface) for easy operation of the system and report generation on time/attendance on a daily, weekly or session basis as per the requirement of the user.
- Should generate signals for indication of identification process in the GUI as well as card reader console.
- Ways for setting User rights & restricting the access.
- Should support offline & online control systems.
- Identified employee should get stored in database.
- Should be able to generate customized reports as per user's requirement.
- Communication with using TCP/IP.
- The system shall only incorporate the use of bi-directional 485 communications for redundancy and reliability.
- The system shall incorporate "High Availability" Communications so that multiple communication paths are available to all controllers. Systems not using multiple/redundant pathways are unacceptable.
- Software should have emergency overriding facility.
- One time data entry of all employees/staff & visitors as approved by secretariat gymkhana will be done by the successful bidder.
- Software should be scalable in terms of number of users and add on advanced features
- The software should be provided in CD media along with the user's manual.
- After installation, the Owner shall be able to perform basic hardware configuration changes. These hardware configuration changes shall include, but not be limited to, door open time, door contact shunt time, access point and reader names, when and where a card/tag holder's entry is valid, and the ability to add or modify card/tag databases as desired without the services of the Manufacturer.
- The card should be able to store basic information of the person it was issued to
- The operator should be able to configure access to various facilities (mentioned above). The main parameters for access should be start date and end date.
- The card should also act as a pre-paid card in which any member can "deposit" money. This can then be used to pay for various facilities for the member along with his/her guests (after due authorization).

Implementation Schedule of Application Software:

- | | |
|----------------------------------------------|--------------------------------------------------|
| a) Preparing of SRS | : 30 days from issue of the work/ purchase order |
| b) Approval of SRS from Secretariat Gymkhana | : 15 days from preparing of SRS |
| c) Development of Software Application | : 30 Days from Approval |
| d) Installation, Testing & Commissioning | : 15 Days from development |

Methodology & Approach:

Details of Software Development Company, Man-power details & services for application Software. Please provide detailed write-ups including methodology & scope of work.

Modules to be covered as part of Software for Gandhinagar Gymkhana Management:

1. Admin Module

- a. Account/Login Management
- b. Program Management
- c. SMS/E-Mail Communication Interface
- d. Report Generation for all segments/modules
- e. Logger
- f. System Backup

2. Member Management Module

The different types of members shall include:

a. Life Members

Will be top level government officials who have been given membership as long as the facility is operational. However, they will still have to pay additionally for all facilities. The life membership may be extended to their family as well (wife and kids).

b. Yearly Members (Government, Semi-Government and Private)

These are members who will have to renew their overall membership of the facility every year. They will have to pay additionally for usage of individual facilities. This will be individual membership only and will not be extended to their families.

c. Corporate Members

These will be people who are being sponsored by their companies as part of a bulk deal. In addition to their membership, their companies can also prepay for usage of various facilities as part of their membership. Apart from the fact that payment will be received directly from the company, they will still be like yearly members.

d. Monthly Members

The maximum duration of short term membership will be 1 month. Additional payment will be required for usage of any facility. E.g. In case a person wants to use facilities for 3 months then he will have to pay for 1 month x3.

e. Daily Members

These will typically be people who want to make use of any particular facility as a single session. They will be issued a card for that facility (upon payment) and it has to be returned while they are on their way out.

The following sections need to be part of member management module:

- a) Member Details
 - a. Personal details
- b) Membership Details
 - a. Program components
 - b. Validity

- c. Guest History
- d. Payment Details

3. Guest Management Module

Various types of guest members can be:

- Walk-in either as individual or in a group
- Any person along with some existing member
- Parents/Guardians/Care-takers who come along with children members
- People visiting only the canteen to eat
- Prospective employees who come for interviews
- Any other “non-member”
- General Public that comes during competitions
 - For competing
 - For viewing

All guests have to be issued a guest pass at the gate along with a refundable fee that shall be returned on submitting the guest pass back at the admin counter.

4. Employee Management Module

- a. Employee Personal details
- b. Software login details
- c. Attendance management system
 - i. Punching/Time stamp system
 - ii. Leaves management system
 - iii. Payroll management system

5. Sales & Accounting Module

- a. Point of Sales system
 - i. Cash/Cheque/EDC recognition
 - ii. Receipt generation
 - iii. Refund management
- b. Expense management system

6. Gym Operations Module

- a. Member details
- b. Membership details
- c. Health Assessment module
- d. Exercise Card module
- e. Diet Assessment & Diet chart module

7. Club Management Module

The following facilities will exist at the Gymkhana and booking and operating mechanism for these various facilities will form a part of this module:

- a. Tennis (Outdoor)
- b. Badminton (Indoor)
- c. Basketball/Volleyball (Outdoor)
- d. Swimming (Outdoor)
- e. Table Tennis (Indoor)

- f. Squash (Indoor)
- g. Pool (Indoor)
- h. Billiards (Indoor)
- i. Card Room (Indoor)
- j. Skating (Outdoor)
- k. Restaurant (Outdoor and Indoor)
- l. Training Room (Indoor)
- m. Conference Room (Indoor)

8. Inventory Management Module

Each of the facilities will have a complete inventory list that needs to be physically verified at regular intervals and updated in the software system. Corresponding reports also need to be generated. This system will also be linked to the accounting system so that expenses can be linked to inventory modification

Types of Users – Type of access Cards

- Permanent Members (Any type)
- Guest with Members.
- Guest with temporary add on Card.
- Guest with prepaid cards.
- For viewing- viewing Card – no facility usage allowed.

Payment Points

- 1) Main Gate – for membership add on card issue, Charging of Cards, Issuing temporary guest cards.
- 2) Sales Office (near the reception) – Membership Charges and renewal charges.

Additional features for the software solution

- 1) Generation of receipts for all payments made at Point of sales counter.
- 2) Payment confirmation messages with start date and end date (communicated to member through SMS/E-mail)
- 3) Due date notifications (communicated to member through SMS/E-mail)
- 4) Various reports like (not an exhaustive list)
 - a. Overall revenues
 - b. Facility wise revenues
 - c. Attendance Monitoring

Max 20-25 various Reports need to be developed.

Offer for Software:

- 1) Membership management – renewals- intimations by SMS / Email and payments.
- 2) Access control System
- 3) Card issues, Prepaid Cards issue and add on card control on regular Card.
- 4) On line accounting for Facility Billing.
- 5) Restaurant billing- Payment form Card.
- 6) Purchase Management
- 7) Financial accounting system.
- 8) Employee attendance and payroll.
- 9) MIS reports.

Architecture:

- ✓ The Access Control system shall be a Microsoft Windows based server application capable of integrating multiple security functions including management, control, and

monitoring of access control, alarms, video image, photo ID credentialing, interfacing with video surveillance (of any OEM), other security subsystems and business database applications.

✓ Deleted

- ✓ The Access Control system shall be a true 32bit multi-threaded application supporting windows 2008 R2 for servers or windows XP/ Windows 7 for client station, designed for Microsoft Windows technology platforms; with multi-user and multi-tasking capability.
- ✓ The Access Control system shall use a commercially available standard database i.e. SQL (2005 and all above), certified for the Microsoft Windows platform.
- ✓ The Access Control system database shall support open direct database connectivity for importing cardholder and card ID data from external systems and/or database applications. The Access Control system shall facilitate interfacing by providing the following capabilities:
 - Unlimited reader expansion
 - Unlimited card/ tag holder in software
 - Unlimited simultaneous client PCs
 - 365 user-definable holidays
 - Unlimited Access levels
 - Unlimited alarm input points and output control point
 - Real time and batch processing of data over a network connection.
 - Insert, update, and delete record information.
 - Automatic download of data to Access Control system control panels based on database changes.
 - Provide audit trail in the operator history/archive database for all database changes initiated by the interface.
 - Record cardholder personal and access information.
 - Control card verification (i.e. the recording of cards on the system).
 - Allow changes to system parameters.
 - Back up transaction, alarm and database audit files to removable storage media.
 - Backup of system configuration updates

SECTION: 4

INSTRUCTIONS TO BIDDERS



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SECTION - 4

INSTRUCTIONS TO BIDDERS

ARTICLE – 1: COST OF BIDDING

- 1.1 The Bidder shall bear all costs associated with the preparation and submission of the Bid and Gujarat Informatics Ltd (GIL)/Secretariat Gymkhana will in no case be responsible for those costs, regardless of the conduct or outcome of the bidding process.
- 1.2 Bidder is requested to pay **Rs. 5,000/-** as a bid processing fee (Non refundable) in the form of demand draft in favor of “Gujarat Informatics Ltd.” payable at Ahmedabad/Gandhinagar along with the EMD cover. In case of non receipt of bid processing fees & EMD the bid will be rejected by GIL/Secretariat Gymkhana as non responsive.

ARTICLE – 2: BIDDING DOCUMENTS

Bidder can download the bid document and further amendment if any freely available on <https://www.gujaratinformatics.com> and <https://www.gil.nprocure.com> and upload the same on <https://www.gil.nprocure.com> on or before due date of the tender. Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submits a Bid not substantially responsive to the bidding documents in every respect may result in the rejection of the Bid. Under no circumstances physical bid will be accepted.

ARTICLE – 3: CLARIFICATION ON BIDDING DOCUMENTS

Bidders can seek written clarifications within 5 days before the Pre-Bid meeting date to Sr. Manager (FM), Gujarat Informatics Ltd., 8th Floor, Block No. 1, Udhog Bhavan Gandhinagar 382010. GIL/Secretariat Gymkhana will clarify & issue amendments if any to all the bidders in the pre-bid meeting. No further clarification what so ever will be entertained after the bid submission date.

ARTICLE – 4: AMENDMENT OF BIDDING DOCUMENTS

- 4.1 At any time prior to the deadline for submission of bids, GIL/Secretariat Gymkhana, for any reason, whether at its own initiative or in response to the clarifications requested by prospective bidders may modify the bidding documents by amendment & put on our websites.
- 4.2 All prospective bidders are requested to browse our website & any amendments/corrigendum/modification will be notified on our website and such modification will be binding on them. Bidders are also requested to browse the website of GIL/Secretariat Gymkhana i.e. www.gujaratinformatics.com & <https://www.gil.nprocure.com> for further amendments if any.
- 4.3 In order to allow prospective bidders a reasonable time to take the amendment into account in preparing their bids, GIL/Secretariat Gymkhana, at its discretion, may extend the deadline for the submission of bids.

ARTICLE – 5: LANGUAGE OF BID

The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and GIL/Secretariat Gymkhana shall be in English. Supporting documents and printed literature furnished by the bidder may be in another language

provided they are accompanied by an accurate translation of the relevant pages in English. For purposes of interpretation of the bid, the translation shall govern.

ARTICLE – 6: SECTION COMPRISING THE BIDS

- 6.1 The quotation should be scan-able and distinct without any option stated in.
- 6.2 The bid uploaded shall have the following documents:
- **SECTION – I - The Bid Security:**
 - a) The bid security & bid processing fee (non-refundable) to be furnished to GIL office on or before due date. The details are required to be filled in this section.
 - **SECTION – II - Eligibility & Technical Section:**
 - a) Clause by clause Compliance statement for Bid document including all annexure to be uploaded.
 - b) All annexure / Table, duly filled-in with necessary proofs, as required and stated in the bid document
 - c) Letter of Authority for signing the bid.
 - d) Make & Model of quoted in the bid with brochures\ internet printout.
 - e) Supporting document related to eligibility Criteria.
 - **SECTION –III - Price bid Section:**
 - a) Priced bid (in the prescribed format only)

ARTICLE – 7: BID FORMS

- 7.1 Wherever a specific form is prescribed in the Bid document, the Bidder shall use the form to provide relevant information. If the form does not provide space for any required information, space at the end of the form or additional sheets shall be used to convey the said information. Failing to upload the information in the prescribed format, the bid is liable for rejection.
- 7.2 For all other cases, the Bidder shall design a form to hold the required information.
- 7.3 GIL/Secretariat Gymkhana shall not be bound by any printed conditions or provisions in the Bidder's Bid Forms

ARTICLE – 8: FRAUDULENT & CORRUPT PRACTICE

- 8.1 Fraudulent practice means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial noncompetitive levels and to deprive the GIL/Secretariat Gymkhana of the benefits of free and open competition.
- 8.2 “Corrupt Practice” means the offering, giving, receiving or soliciting of anything of value, pressurizing to influence the action of a public official in the process of Contract execution

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- 8.3 GIL/Secretariat Gymkhana will reject a proposal for award and may forfeit the E.M.D. and/or Performance Guarantee if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for, or in executing, contract(s).

ARTICLE – 9: LACK OF INFORMATION TO BIDDER

The Bidder shall be deemed to have carefully examined all contract documents to his entire satisfaction. Any lack of information shall not in any way relieve the Bidder of his responsibility to fulfill his obligation under the Contract.

ARTICLE – 10: CONTRACT OBLIGATIONS

If after the award of the contract the Bidder does not sign the Agreement or fails to furnish the Performance Bank guarantee within fifteen (15) working days along with the inception report and working schedule as per the tender requirements & if the operation are not started within fifteen (15) working days after submission of P.B.G. as mentioned, GIL/Secretariat Gymkhana reserves the right to cancel the contract and apply all remedies available to him under the terms and conditions of this contract.

ARTICLE – 11: BID PRICE:

- 11.1 The priced bid should indicate the prices in the format/price schedule only.
11.2 Offered price should be exclusive of all applicable taxes such as VAT/CST/Service Tax, FOR destination (any where in Gujarat state).
11.3 Any effort by a bidder or bidder's agent/ consultant or representative howsoever described to influence the GIL/Secretariat Gymkhana in any way concerning scrutiny/ consideration/ evaluation/ comparison of the bid or decision concerning award of contract shall entail rejection of the bid.
11.4 Unit rates should be quoted separately for each item. Quantities can be increased or decreased by purchaser and bidder has to supply deviated quantities at the rates prescribed and approved by the purchaser in the tender document.

ARTICLE – 12: BID CURRENCY

The prices should be quoted in Indian Rupees. Payment for the supply of equipments as specified in the agreement shall be made in Indian Rupees only.

ARTICLE – 13: BID SECURITY / EARNEST MONEY DEPOSIT (EMD)

- 13.1 The Bidder shall furnish, as part of the Bid, a Bid security for the amount of **Rs. 2,00,000/-** by demand draft, in favor of Gujarat Informatics Ltd., payable at Gandhinagar/Ahmedabad in India in a separate envelope. The un-priced bid will be opened subject to the confirmation of valid Bid security.
13.2 Unsuccessful Bidder's Bid security will be refunded within thirty (30) days from the award of work to the successful bidder.
13.3 The successful Bidder's Bid security will be discharged upon the Bidder signing the Contract/Agreement, and furnishing the Performance Bank Guarantee.
13.4 The Bid security may be forfeited at the discretion of GIL/Secretariat Gymkhana, on account of one or more of the following reasons:



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- a. The Bidder withdraws their Bid during the period of Bid validity specified on the Bid letter form.
- b. Bidder does not respond to requests for clarification of their Bid.
- c. Bidder fails to co-operate in the Bid evaluation process, and
- d. In case of a successful Bidder, the said Bidder fails :
 - (i) To sign the Agreement in time
 - (ii) To furnish Performance Bank Guarantee

ARTICLE – 14: PERIOD OF VALIDITY OF BIDS

14.1 Bids shall remain valid for **180 days** after the date of Bid opening prescribed by GIL/Secretariat Gymkhana. Bid valid for a shorter period shall be rejected as non-responsive.

14.2 In exceptional circumstances, GIL/Secretariat Gymkhana may solicit Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The Bid security shall also be suitably extended. A Bidder's request to modify the Bid will not be permitted.

ARTICLE – 15: DURATION OF THE CONTRACT

The duration of the Contract period for this will be of **2 years**. The duration spent for installation of Hardware and Software (Multimedia based content) will not be a part of contract period. Hence the actual contract period starts after the successful installation of hardware and software & completion of deployment of software as per the RFP.

ARTICLE – 16: BID DUE DATE

- 16.1 Bid must be received by the GIL/Secretariat Gymkhana at the address specified in the Request for Proposal (RFP) not later than the date specified in the RFP.
- 16.2 The GIL/Secretariat Gymkhana may, as its discretion, on giving reasonable notice by fax, cable or any other written communication to all prospective bidders who have been issued the bid documents, extend the bid due date, in which case all rights and obligations of the GIL/Secretariat Gymkhana and the bidders, previously subject to the bid due date, shall thereafter be subject to the new bid due date as extended.

ARTICLE – 17: LATE BID

No bidder may be able to upload or submit the bid after the bid due date/time.

ARTICLE – 18: MODIFICATION AND WITHDRAWAL OF BID

- 18.1 The Bidder may modify or withdraw its Bid after the Bid's submission, provided that written notice of the modification including substitution or withdrawal of the bids is received by GIL/Secretariat Gymkhana prior to the deadline prescribed for submission of bids.
- 18.2 The Bidder's modification or withdrawal notice shall be prepared, sealed, marked and dispatched in a manner similar to the original Bid.
- 18.3 No Bid may be modified subsequent to the deadline for submission of bids.
- 18.4 No Bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of Bid validity specified by the Bidder on the bid letter form. Withdrawal of a Bid during this interval may result in the bidder's forfeiture of its Bid security.

ARTICLE – 19: OPENING OF BIDS BY GIL/Secretariat Gymkhana



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- 19.1 Bids will be opened in the presence of Bidder's representatives, who choose to attend. The Bidder's representatives who are present shall sign a register evidencing their attendance.
- 19.2 The Bidder's names, Bid modifications or withdrawals, discounts and the presence or absence of relevant Bid security and such other details as the GIL/Secretariat Gymkhana officer at his/her discretion, may consider appropriate, will be announced at the opening.
- 19.3 Immediately after the closing time, the GIL/Secretariat Gymkhana contact person shall open the Un-priced Bids and list them for further evaluation.

ARTICLE – 20: CONTACTING GIL/Secretariat Gymkhana

- 20.1 Bidder shall not approach GIL/Secretariat Gymkhana officers outside of office hours and/ or outside GIL/Secretariat Gymkhana office premises, from the time of the Bid opening to the time the Contract is awarded.
- 20.2 Any effort by a bidder to influence GIL/Secretariat Gymkhana officers in the decisions on Bid evaluation, bid comparison or contract award may result in rejection of the Bidder's offer. If the Bidder wishes to bring additional information to the notice of the Secretariat Gymkhana, it should do so in writing.

ARTICLE – 21: REJECTION OF BIDS

GIL/Secretariat Gymkhana reserves the right to reject any Bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder(s) or any obligation to inform the affected Bidder(s) of the grounds for such decision.

ARTICLE – 22: BID EVALUATION

- 22.1 Bids will be opened in the presence of Bidder's representatives, who choose to attend. The Bidder's representatives who are present shall sign a register evidencing their attendance.
- 22.2 The Bidder's names, Bid modifications or withdrawals, discounts and the presence or absence of relevant Bid security and such other details as the GIL/Secretariat Gymkhana officer at his/her discretion, may consider appropriate, will be announced at the opening.
- 22.3 **Evaluation of the bids:** After the closing time of submission, GIL/Secretariat Gymkhana committee will verify the submission of Bid Processing Fees & EMD as per bid terms and conditions. The eligibility criteria evaluation will be carried out of the responsive bids. The technical bids of the bidders who are complying with all the eligibility criteria will be opened and evaluated next. The financial bid of the technically qualified bidders will be opened and financially L1 bidder will be decided from the sum total of unit prices for all line items without tax with three years warranty and then called for further negotiations if required.

ARTICLE – 23: AWARD OF CONTRACT

- 23.1 **Choice of Firm:** Final Choice of Firm to execute this project shall be made on the basis of conformity to technical and operational requirements, time schedule of execution and appropriateness of priced bid from the point of view of cost competitiveness.
- 23.2 **Award Criteria:** The Criteria for selection will be the lowest cost to Secretariat Gymkhana for the technically qualified bid for total cost. (Excluding any taxes)
- 23.3 Secretariat Gymkhana's right to vary requirements at time of award: Secretariat Gymkhana reserves the right at the time of award to increase or decrease quantity for the requirements originally specified in the document without any change in Bid rate or other terms and conditions.
- 23.4 In case, if lowest bidder does not accept the award of contract or found to be involved in corrupt and/or fraudulent practices, the next lowest bidder will be awarded the contract. In

such scenario, the lowest bidder has to born the difference between lowest prices and next lowest prices.

ARTICLE – 24: NOTIFICATION OF AWARD & SIGNING OF CONTRACT

- 24.1 Prior to expiration of the period of Bid validity, GIL/Secretariat Gymkhana will notify the successful Bidder and issue Lol.
- 24.2 Within Six (6) working days of receipt of the Contract Form, the successful Bidder shall sign and date the Contract and return it to the GIL/Secretariat Gymkhana. The contract Performance guarantee has to be submitted within fifteen (15) working days of receipt of award. The Bank guarantee (Performance) shall be equal to 10% of the value of contract. The Bank Guarantee shall be valid for duration of contract.
- 24.3 Upon the successful Bidder's furnishing of Performance Bank Guarantee and signing of Contractual documents, The Bid Security of all unsuccessful Bidders will be refunded as per **clause 13.2.**

ARTICLE – 25: FORCE MAJEURE intentionally

- 25.1 Force Majeure shall mean any event or circumstances or combination of events or circumstances that materially and adversely affects, prevents or delays any Party in performance of its obligation in accordance with the terms of the Agreement, but only if and to the extent that such events and circumstances are not within the affected party's reasonable control, directly or indirectly, and effects of which could have prevented through Good Industry Practice or, in the case if construction activities through reasonable skill and care, including through the expenditure of reasonable sums of money. Any events or circumstances meeting the description of the Force Majeure which have same effect upon the performance of any contractor shall constitute Force Majeure with respect to the Vendor. The Parties shall ensure compliance of the terms of the Agreement unless affected by the Force Majeure Events. The Vendor shall not be liable for forfeiture of its implementation / Performance guarantee, levy of Penalties, or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Agreement is the result of Force Majeure.
- 25.2 Force Majeure Events

The Force Majeure circumstances and events shall include the following events to the extent that such events or their consequences (it being understood that if a causing event is within the reasonable control of the affected party, the direct consequences shall also be deemed to be within such party's reasonable control) satisfy the definition as stated above.

Without limitation to the generality of the foregoing, Force Majeure Event shall include following events and circumstances and their effects to the extent that they, or their effects, satisfy the above requirements:

- 25.3 Natural events ("Natural Events") to the extent they satisfy the foregoing requirements including:
 - A. Any material effect on the natural elements, including lightning, fire, earthquake, cyclone, flood, storm, tornado, or typhoon;
 - B. Explosion or chemical contamination (other than resulting from an act of war);
 - C. Epidemic such as plague;
 - D. Any event or circumstance of a nature analogous to any of the foregoing.
- 25.4 Other Events ("Political Events") to the extent that they satisfy the foregoing requirements including:

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Political Events which occur inside or Outside the State of Gujarat or involve directly the State Government and the Central Government (“*Direct Political Event*”), including:

- I. Act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, blockade, embargo, revolution, riot, insurrection, civil commotion, act of terrorism or sabotage;
- II. Strikes, work to rules, go-slows which are either widespread, nation-wide, or state-wide and are of political nature;
- III. Any event or circumstance of a nature analogous to any of the foregoing.

25.5 FORCE MAJEURE EXCLUSIONS

Force Majeure shall not include the following event(s) and/or circumstances, except to the extent that they are consequences of an event of Force Majeure :

- a. Unavailability, late delivery
- b. Delay in the performance of any contractor, sub-contractors or their agents;

25.6 PROCEDURE FOR CALLING FORCE MAJEURE

The Affected Party shall notify to the other Party in writing of the occurrence of the Force Majeure as soon as reasonably practicable, and in any event within 5 (five) days after the Affected Party came to know or ought reasonably to have known, of its occurrence and that the Force Majeure would be likely to have a material impact on the performance of its obligations under the Agreement.

ARTICLE – 26: CONTRACT OBLIGATIONS

Once a contract is confirmed and signed, the terms and conditions contained therein shall take precedence over the Bidder’s bid and all previous correspondence.

ARTICLE – 27: AMENDMENT TO THE AGREEMENT

Amendments to the Agreement may be made by mutual agreement by both the Parties. No variation in or modification in the terms of the Agreement shall be made except by written amendment signed by both the parties. All alterations and changes in the Agreement will take into account prevailing rules, regulations and laws applicable in the state of Gujarat.

ARTICLE – 28: USE OF AGREEMENT DOCUMENTS AND INFORMATION

- 28.1 The Vendor shall not without prior written consent from Secretariat Gymkhana disclose the Agreement or any provision thereof or any specification, plans, drawings, pattern, samples or information furnished by or on behalf of Secretariat Gymkhana in connection therewith to any person other than the person employed by the Vendor in the performance of the Agreement. Disclosure to any such employee shall be made in confidence and shall extend only as far as may be necessary for such performance.
- 28.2 The Vendor shall not without prior written consent of Secretariat Gymkhana make use of any document or information made available for the project except for purposes of performing the Agreement.
- 28.3 All project related documents issued by Secretariat Gymkhana other than the Agreement itself shall remain the property of Secretariat Gymkhana and Originals and all copies shall be

returned to Secretariat Gymkhana on completion of the Vendor's performance under the Agreement, if so required by the Secretariat Gymkhana.

ARTICLE – 29 DELETED

ARTICLE – 31: TAXES & DUTIES

Vendor is liable for all taxes and duties etc. as may be applicable from time to time.

ARTICLE – 32: BOOKS & RECORDS

Vendor shall maintain adequate Documents Related to project's physical materials & equipments for inspection and audit by Secretariat Gymkhana during the terms of Contract until expiry of the performance guarantee.

ARTICLE – 33: WARRANTY TERMS

The successful bidder/Agency shall give on-site warranty for all equipments mentioned in RFP of 1 year extendable up to 3 years. Bidder has to quote separately for 2nd and 3rd warranty. Secretariat Gymkhana, R&B Department, GoG reserves the right to give work order with either 1 year or 3 years warranty from the date of Site Acceptance Test (SAT) of the system. L1 will be decided with 3 years warranty.

In the event that the materials supplied do not meet the specifications and/ or are not in accordance with the drawings data in terms of this order, and rectification is required at site, Secretariat Gymkhana shall notify the Vendor giving full details of difference. The Vendor shall attend the site within seven days of receipt of such notice to meet and agree with Secretariat Gymkhana, the action required to correct the deficiency. Should the Vendor fail the attend meeting at site within the time specified above, Secretariat Gymkhana shall be at liberty to rectify the work/materials and Vendor shall reimburse Secretariat Gymkhana all costs and expenses incurred in connection with such trouble or defect.

ARTICLE – 34: PERFORMANCE GUARANTEE

- 34.1 The Vendor shall furnish Performance Guarantee as provided in the bid document to Secretariat Gymkhana for an amount equal to 10% of the value of Order.
- 34.2 The performance guarantee will be in the form of bank guarantee for the amount equal of 10% of the value of the Order / LOI towards faithful performance of the contract obligation, and performance of the equipments during Warranty period. In case of poor and unsatisfactory field services, Secretariat Gymkhana shall invoke the PBG.
- 34.3 The Performance Guarantee shall be valid for a period of 180 days beyond Contract period and shall be denominated in Indian Rupees and shall be in the form of an unconditional Bank Guarantee issued by all Public Sector Banks and private banks such as IDBI Bank, UTI Bank, HDFC Bank, ICICI Bank, Kalupur Commercial Co-Operative Bank having branch in Gandhinagar\Ahmedabad in the format provided by Secretariat Gymkhana to be submitted Within 15 working days of receipt of award.
- 34.4 The Performance Guarantee shall be discharged by Secretariat Gymkhana and returned to the Vendor within 30 days from the date of expiry of the Performance Bank Guarantee.

ARTICLE – 35: PAYMENTS TERMS

1	No advance payment will be made
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2	<p>90% payment will be made after completion of the Work.</p> <p>(The work has to be completed within 75 days for the date of Work Order issued. The bidder has to take approval of Schematics diagram (Layout) within 15 days for Cabling & laying work of DATA & Voice Distribution, CCTV & Access Control system & TV Distribution and complete the work from the remaining 60 days.)</p>
3	<p>10 % payment will be made after 90 days from completion of the Work.</p>

The currency of payment shall be Indian Rupees.

ARTICLE – 36: SERVICE TERMS

- 36.1 The entire scope of the work depends on the technical skill and experience in management of the same level or kind of infrastructure.
- 36.2 It is mandatory for Vendor to deploy qualified professional to install, commission & maintain the equipments, as defined under scope of work.
- 36.3 The Vendor has to submit regular schedule of man power availability & get it approved by GIL/Secretariat Gymkhana.
- 36.4 The Vendor has to deploy necessary problem escalation process & system to take care predefined VIP users at the priority.
- 36.5 The Vendor is free to deploy or to develop applications to facilitate the operation. GIL/Secretariat Gymkhana will welcome the deployment such application in respect to improve Quality of Services.
- 36.6 For extending better services to the user, the Vendor will be allowed to deploy & use own tested and proven solution, with prior permission from the GIL/Secretariat Gymkhana.
- 36.7 The Vendor has to ensure availability of man power round the clock. There has to be availability of Vendor's human resources 24 hours * 7 days a week through-out the year.
- 36.8 The Vendor need to manage & maintain various records related to the services extended to the user.
- 36.9 The network is being operated & maintained by various agencies. In such circumstances the Vendor may need to coordinate and approach various agencies, if required.
- 36.10 The Vendor need to maintain the required security of network, database, e-mails etc. related to the operations.
- 36.11 The Vendor is responsible to maintain documentation on the progress of the work and will have to update the same on regular basis. Vendor will have to submit the progress reports regularly, as per the guide line issued by GIL/Secretariat Gymkhana.
- 36.12 The understanding of the comprehensive maintenance under warranty period is as follows.
 - 36.12.1 In case of failure, the Vendor needs to replace or repair the faulty part/component/device to restore the services at the earliest.
 - 36.12.2 The cost of the repairing or replacement of faulty part/component/device has to be entirely born by the Vendor.
 - 36.12.3 All expenses related to part/component/device, including hiring of specialized technical expertise, in case required, has to be born by the Vendor as part of comprehensive maintenance.
 - 36.12.4 The Vendor also needs to make alternate arrangement in case of major failure happens in the network, due to which services may be effecting for longer period.
 - 36.12.5 After repairing or replacement of the part/component/device, the Vendor needs to put the same into operation.

ARTICLE – 37: PENALTY CLAUSE

37.1 Penalties for delay in implementation:

If the bidder fails to deliver and install the requisite hardware and software within 75 working days of the issue of the confirmed purchase order, then a sum equivalent to one percent (1 %) of the total contract value shall be deducted from the payment for each calendar week of delay or part thereof.

Delay in excess of 10 weeks will be sufficient to cause for termination of the contract. In that case the Performance Bank Guarantee of the bidder will be forfeited.

In case, the selected bidder does not supply the ordered items for any reason, the bidder will be liable to pay the difference amount to the purchaser, over and above the performance guarantee, which indenter department has to pay to the next or other selected bidder for purpose of the said items.

37.2 Operational Penalties:

During warranty period, if the complaint is not resolved within 48 hrs the penalty of Rs. 500 per day for Server and within 72 hrs for nodes and terminals, the penalty of Rs. 30

0 per day and for Peripherals or networking components the penalty of Rs. 200 per day will be levied. However, if the complaints not resolved within 7 days then from 8th day to 14th day, penalty would be levied @ 150% and from 15th day onwards penalty @ 200% of the above rates would be levied. The amount of penalty will be recovered from the Performance bank guarantee during warranty period.

It is expected the average downtime of the item (system) will be less than half the maximum downtime. In case an item is not usable beyond the stipulated maximum downtime the bidder will be required to arrange for an immediate replacement of the same till its is repaired. Failure to arrange for the immediate repair/replacement will be liable for penalty of RS.500 per day for server and RS. 300 per day for nodes and terminals and Rs. 200 per day for Peripherals or networking components. The amount of penalty will be recovered from the Performance bank guarantee during warranty period.

The Bidder/System Integrator will be required to co-ordinate with software vendor and/or do liaisoning with other service provider to achieve the end-to-end connectivity. This also includes Server OS configuration with respect to LAN/WAN technologies implementation.

ARTICLE – 38: APPROVALS / CLEARANCES

- 38.1 Necessary approvals/ clearances concerned authorities, for establishing the proposed project are to be obtained by the Vendor.
- 38.2 Necessary approvals/ clearances from concerned authorities, as required, for fire protection, government duties / taxes / Octroi, are to be obtained by the Vendor.
- 38.3 Necessary approvals/ clearances, from concerned authorities (like City Nagar, Nigam, Public Works Department (PWD), Department of Irrigation, State Electricity Board etc. for “Right of way”), as required, are to be obtained by the Vendor for laying their own cables to meet system requirements

ARTICLE – 39: PROJECT IMPLEMENTATION

- 39.1 The selected agency will have to be completed Installation, testing and commissioning of hardware and required equipments including LAN & cabling work within **75 days** from signing of Purchase Order/ Work Order. The work has to be completed within 75 days for the date of Work Order issued. The bidder has to take approval of Schematics diagram (Layout) within 15 days for Cabling & laying work of DATA & Voice Distribution, CCTV & Access Control system & TV Distribution and complete the work from the remaining 60 days.
- 39.2 The Selected agency will implement the project strictly as per the plan approved by GIL/Secretariat Gymkhana. The Vendor shall carry out cabling work at such locations as may be selected by GIL/Secretariat Gymkhana within a specified period as specified in Instruction letter/ LOI/ Order and complete their provisional Acceptance Test to the satisfaction of GIL/Secretariat Gymkhana within 10 days from the date specified. This period may be extended depending upon the fulfillment of Conditions Precedent.
- 39.3 Installation; Commissioning and acceptance of work will be undertaken by GIL/Secretariat Gymkhana. All Invoices, Vouchers, Bills for supplied goods and services by the Supplier under the scope of the work will be verified measured and accepted by Secretariat Gymkhana for release of payment.
- 39.4 As part of implementation the Vendor shall provide details of equipment that will be incorporated in the proposed system, material and manpower as required. The location for storing spare parts and quantity there on should also be clearly indicated.
- 39.5 The Vendor shall provide the necessary technical support, Standard Operating Procedure (SOP) and other information to GIL/Secretariat Gymkhana and its user organizations in implementing the proposed system applications. GIL/Secretariat Gymkhana at any time during the currency of the Agreement should have access to the proposed sites.
- 39.6 The Vendor shall provide training **of hardware as well as software to maximum 20 person of Secretariat Gymkhana** at no cost to Secretariat Gymkhana. The training schedule, content and modalities will be defined jointly by both the parties.
- 39.7 The Vendor shall arrange to obtain all statutory permission with no cost to GIL/Secretariat Gymkhana. The Vendor may have to work during Holidays and Sundays, according to the urgency of work. The Vendor will obtain such permission on his own in consultation with Secretariat Gymkhana. It will be the responsibility of the Vendor to co-ordinate with Secretariat Gymkhana required to execute the job.
- 39.8 The Vendor shall not disturb or damage the existing network of communication. If in case any damage to the network is done, the same shall be corrected with no extra cost. The agency shall also be responsible for paying penalty, as imposed by the service owner to which the damage is incurred.
- 39.9 In case of the material/solution supplied and installed is rejected owing to its non-conformity to the specification or due to the poor quality of workmanship, the same shall be replaced promptly.
- 39.10 Vendor shall treat all matters connected with the contract strictly confidential and shall undertake not to disclose, in any way, information, documents, technical data, experience and know how, without prior written permission from GIL/Secretariat Gymkhana.
- 39.11 Any damage caused to the property of Secretariat Gymkhana while executing the job shall be solely Vendor's responsibility. In case any damage to the property is caused, the same will be recovered from the Vendors. No any extra cost shall be paid to the Vendor for such reasons.
- 39.12 The Vendor shall have to furnish the documentation of the work undertaken in consultation with Secretariat Gymkhana rep. 3 sets of such documentation should be provided before the issue of completion certificate.
- 39.13 It is a turnkey project. The Vendor shall be fully responsible for implementing the Project in totality and should include the items and their prices, if not included in Schedule of Requirement to complete the project on turnkey basis. Any claim whatsoever in this regard will not be entertained later on.

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- 39.14 In the event of the delay in delivery of contracted services or services is not satisfactory the purchaser may procure goods from else ware as prescribed in bid and Vendor shall be liable without limitations for the difference between the cost of such substitution and the price set forth in the contract for the goods involved i.e. at the risk and cost of the Vendor.
- 39.15 GIL/Secretariat Gymkhana reserves the right to visit any working site of the Vendor with prior intimation. The concern Vendor has to make necessary arrangement for the same.
- 39.16 The Supplier shall be responsible and take required insurance for all of their representations working on the site at their own cost. GIL/Secretariat Gymkhana will not be responsible for any loss or damage to any of the representatives of the Supplier during the said contract.
- 39.17 All work shall be performed and executed by the Supplier in strict conformity with Secretariat Gymkhana and any relative instruction issued to the Supplier by Secretariat Gymkhana time to time.
- 39.18 In the event of the delay in delivery of contracted services or services is not satisfactory the purchaser may procure goods from else ware as prescribed in bid and Vendor shall be liable without limitations for the difference between the cost of such substitution and the price set forth in the contract for the goods involved i.e. at the risk and cost of the Vendor.
- 39.19 Secretariat Gymkhana shall associate few engineers / technicians during installation and commissioning work. Vendor shall ensure proper participation of the nominated personnel from Secretariat Gymkhana and train them on the system related. Also vendor shall organize the systematic training of selected personnel from Secretariat Gymkhana on the operation/ management of equipments.

ARTICLE – 40: ACCEPTANCE TEST

Acceptance Test will be conducted in as follows:

- 40.1 GIL/Secretariat Gymkhana reserves the right to inspect equipment's and OFC/JFC, Cat-5 cables etc. The cost of all such tests shall be borne by the Vendor. Any inspected goods fail for confirm to specification after installation, the GIL/Secretariat Gymkhana may reject them and the Vendor shall have to replace the rejected goods. In case of inspection waiver the same shall be obtained before the dispatch of goods. Inspection of rest of material shall be done at site. Sample approval should be obtained before installation for such material.
- 40.2 The first step will involve successful installation of all sites. The provisional acceptance of these sites will be defined as Partial Acceptance.
- 40.3 The date on which Acceptance certificate is issued shall be deemed to be the date of successful commissioning of the System.
- 40.4 Any delay by the Vendor in the Acceptance Testing shall render the Vendor liable to the imposition of appropriate Penalties.
- 40.5 All goods and services should have approval of TEC with ISI or other certification, as applicable, to prove the quality standards applicable in India.
- 40.6 The final acceptance test (FAT) report should confirm with cabling standard under the ISO certification.

ARTICLE – 41: INSTALLATION REQUIREMENTS

- 41.1 The Vendor needs to pull necessary cables up to required place, using approved PVC Piping/Channel/RF/CAT5 or CAT6 Cable.
- 41.2 The necessary Civil & Electrical work has to be carried out by the Vendor. The Secretariat Gymkhana will not reimburse any cost towards the same. The Vendor need to take necessary permission if require from concern authority.

ARTICLE – 42: SOFTWARE LICENCES (IF APPLICABLE)

The Vendor shall be responsible for providing Software (System Software, Application Software, Device Drivers, IOS, etc) required, if any, to meet any additional requirements during the currency of the Agreement without any additional cost to Secretariat Gymkhana. All license software must be in the

name of Secretariat Gymkhana. The ownership of any involved customize software will be of the Secretariat Gymkhana.

ARTICLE – 43: INSTALLATION OF ADDITIONAL HARDWARE (IF APPLICABLE)

During the currency of the Agreement, for any additional requirement of equipment including interface equipment, the specifications will be provided by the Vendor. Secretariat Gymkhana /The Third Party Agency will verify suitability of the specifications submitted by Vendor and recommend to Secretariat Gymkhana for acceptance. The Vendor will be obligated to undertake integration, operation and maintenance for all additional equipments if required.

ARTICLE – 44: THIRD PARTY AGENCY

Secretariat Gymkhana may appoint Third Party Agency, who would monitor the project during implementation, commissioning and operation. The Third Party Agency will also conduct the Partial and Final Acceptance Test as per the technical requirement of the Agreement and will issue the Certificate of Completion of each proposed site. Third Party Agency will verify the services provided by the Vendor under the Agreement. The Vendor will co-operate with such Third Party Agency.

ARTICLE – 45: SUPPORT FROM EXTERNAL AGENCY (IF APPLICABLE)

In case, if Vendor wish to have support from any external agency, it's very necessary to inform GIL/Secretariat Gymkhana in written prior to allow them to work on Secretariat Gymkhana infrastructure. The information should contain all respective information about the company from whom support has been extended, the person/group of people and the segment in which services has been taken. On completion of the task, another report should be submitted by mentioning action taken by this person/group of people from external agency, with duration. The Vendor is sole responsible for the action taken by such agency on their behalf. No Data/ Information should be sent out of the premise without obtaining prior written confirmation from the GIL/Secretariat Gymkhana.

SECTION: 5

TECHNICAL BID FORMAT



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SECTION 5

MAKE & MODEL LIST

Sr. No	Item Description	UoM	Make & Model	Supporting Document Attached or Not?
A	VOICE & DATA DISTRIBUTION			
1	PVC Conduits Supply & laying of 25 mm dia. heavy gauge HMS rigid PVC conduit to be laid in open/concealed manner.	Rmtr		
2	Telephone/ Data Networking Cabling Supply and laying of specified make UTP CAT6 cable in pre-laid PVC conduits/ pipes / raceway. The cable is to be drawn from individual workstation/desktop area to the central communications/server room/floor rack/intermediate telecom closet. (LAN_Cabling)	Rmtr		
3	SITC of Single UTP CAT6 RJ-45 I/O of specified make including faceplate for single/dual IO and MS backbox assembly, inclusive of termination of CAT6 cable at each IO at workstation area / desktop / or at a patch panel inside a rack.	Nos		
4	Supply, Installation, Testing and Commissioning of Networking Enclosure - wall mounted, 19" mounting frame, usable height 12U, 750mmH x 600mmW x 450mmD	Nos		
5	Supply, Installation, Testing and Commissioning of Networking Enclosure - Floor Standing, 19" mounting frame, usable size 22U, 800mmW x 1000mmD as per Tender Specifications	Nos		
6	UTP CAT6 RJ45 Ethernet Patch Cord – 1Mtr/ 3ft	Nos		
7	UTP CAT6 RJ45 Ethernet Patch Cord – 2Mtr/ 7ft	Nos		
8	Supply and Installation of UTP CAT6/6A Gigabit Modular Angular Patch Panel for 24 ports in 1U form factor as per the tender specifications, with universal A/B labeling and 110 connector terminations on rear of panel allowing for quick and easy installation of 22 to 24 AWG cable.	Nos		
9	Supply, Installation, Testing and Commissioning of Wireless Access Point supporting 802.11a/b/g/n (as per the tender specification)	Nos		

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10	Supply, Installation, Testing and Commissioning of Layer 2 manageable switch, 24 ports 10/100/1000 Mbps, auto MDI/MDX, auto-sensing, supporting minimum 2 nos. 1000Mbps Copper or ofc shared uplinks, PoE for IP end-points	Nos		
B	IP VIDEO SURVEILLANCE/ CCTV SYSTEM FOR CAMPUS SECURITY			
1	Supply, Installation, Testing and Commissioning of IP network cameras fixed, CS mount type, PoE, High Definition inclusive of indoor housing as per tender specifications.	Nos		
2	Supply, Installation, Testing and Commissioning of IP network cameras fixed, CS mount type, PoE or 24VAC/12VDC, High Definition inclusive of IP 66 rated and vandal proof outdoor housing as per tender specifications.	Nos		
3	Supply, Installation, Testing and Commissioning of High Definition fixed dome network cameras, PoE, inclusive of housing for indoor operation, as per tender specifications.	Nos		
4	Supply, Installation, Testing and Commissioning of High Definition format 360 degrees endless PTZ network cameras, PoE as per IEEE 802.3a/f/t or 230VAC/48VDC, inclusive of IP66 rated vandal proof housing for outdoor operation, as per tender specifications.	Nos		
5	Supply, Installation, Testing and Commissioning of Central Management application for comprehensive management of the IP surveillance network for upto 32 camera registrations	Nos		
6	Supply, Installation, Testing and Commissioning of Server as per specification given in Section 5 of RFP.	Nos		
7	Supply, Installation, Testing and Commissioning of Network Attached Storage minimum 4TB HDD as per specifications for achieving above storage capabilities inclusive of server hardware.	Nos		
8	2 KVA online UPS with one hour back up along with cabinets	Nos		
9	SITC - HDMI 2.x compliant LCD Monitor panel 32" or above as per tender specification for monitoring as per tender specifications.	Nos		
10	Supply, Installation, Testing and Commissioning of Indoor UTP CAT6 cabling for IP based network cameras as per tender specifications.	Rmtr		
11	Supply & laying of 25 mm dia. Heavy gauge HMS rigid PVC conduit to be laid in open/concealed manner.	Rmtr		
C	IP BASED ACCESS CONTROL SYSTEM			



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1	SITC of IP based Serial Controller supporting 4 Door with 4 relay. (Access Control)	Nos.		
2	SITC of Smart Card Reader/Proximity reader with multi functionality like Biometric based and keypad for access control	Nos.		
3	Tripod Turnstiles, with Controller, hardware, Ethernet connectivity and integration with access control system	Nos.		
4	SITC of Electromagnetic lock 600lbs capacity with all accessories and cabling	Nos.		
5	SITC of Exit Switch with door controller	Nos.		
6	Proximity Cards including photo-id and other printing as per client	Nos.		
7	UTP CAT6 cabling for integration of door access controllers to central server - Supply and laying of specified make UTP CAT6 cable in prelaidd PVC conduits / pipes / raceway, but without the cost of raceway or pipe. (The cable is to be drawn from individual controller to the central communications/server room. Terminations to be carried out in any intermediate wiring closets/telecom closets by way of racks/MDF/IDF).	Rmtr		
8	Supply and Laying of 8 core 14/38, multi strand flexible data cable.	Rmtr		
9	PVC Conduits Supply & laying of 25 mm dia. open/conceal manner heavy guage rigid PVC pipe as per tender specifications.	Rmtr		
D	APPLICATION SOFTWARE DEVELOPMENT			
1	Web based Software Application for System Configuration, Management & Diagnostics, Basic Time Attendance and Leave Management Application	Nos.		
E	TELEVISION DISTRIBUTION			
1	Television Distribution - Supply, installation, connection, testing and commissioning of television system with supplying of television cables as per specification and drawings. The unit rate considered on running meter basis includes supply, laying, connection, testing and commissioning of television cables through rigid PVC conduit from junction of Data Room. The cable shall be installed in a concealed manner in the vertical riser including supply & fixing splitter / Junction box of specified make.			
2	Supply & laying of 25 mm dia. PVC conduit to be laid in open/concealed manner.	Rmtr		
3	Supplying and Laying of RG 6 TV cable in prelaidd conduit	Rmtr		
4	Supplying and Laying of RG 11 TV cable in prelaidd	Rmtr		

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	conduit			
5	Supply & fixing of 3/4 way splitter	Nos		
6	Supply & fixing of 6 way splitter	Nos		
7	Supplying, installing, testing and commissioning of one television point to be done with television outlet socket and box of the APPROVED make.	Nos		
8	Supply/ Installation of analogue Telephone Instrument (Push Button Type) – TEC Approved with accessories Brand: Beetel, Coral/ Secure	Nos		

LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS MATERIALS

S/No.	Item Description	Specified Brand/Make/Manufacturer
1	Rigid PVC Conduit	ISI & FIA approved & manufactured from virgin material. Precision, NIHIR, PPI, VRaj.
2	Accessories for conduit	Same make as of pipe.
3	CAT6 Structured Cabling Components (Data & Telecom) – Cables, Patch Panels & IOs	CommScope-Systimax, Dax Networks, Krone
4	Networking Switches	Cisco, Avaya, Extreme Networks, DAX, D-link, DigiSol, HP Networking
5	Wireless Access Points	Cisco, Avaya, Dax Networks, Extreme Networks, Motorola, ubiquity, netgear, HP Networking
6	CCTV / Video-Surveillance	Bosch, Sony, Palco, Dax Networks, D-link, DigiSol, Axis, Panasonic
7	LCD Display	Toshiba, Sony, Samsung, LG, Philips, AOC, and Panasonic
8	Server and Storage for CCTV	HP, IBM, I-omega, EMC, Dell, Fujitsu, Dax Networks, SIS
9	Access Control System	Godrej, Gunnebo, Matrix, or Equivalent
10	Racks – Networking, Server	Elixir, Panduit, Vero-President, Valrack, Rittal
11	Telephone instruments	Beetel, Coral/ Secure, Siemens
12	Television Distribution	BIS Standard

TECHNICAL BID FORMAT of HARDWARE EQUIPMENTS

(A) VOICE & DATA DISTRIBUTION

ITEM No. 1 – PVC CONDUITS				
Sr No.	Item Description		Matched/ Not Matched	Deviation/Remarks, if any
1	Supply & Laying of 25 mm dia. Heavy gauge HMS rigid PVC conduit to be laid in open/ concealed manner. The conduit shall generally be as specified under section 'Telephone and Data Distribution'.			
ITEM No. 2 – CATEGORY 6 UTP CABLE				
Sr No.	Item Description		Matched/ Not Matched	Deviation/Remarks, if any
2	General Specification	Standard Length : 305 Meters (1000 Feet)		
		4 Pair Twisted Cable		
		Tangle free cable pack in laminated corrugated box		
		Support for Fast and Gigabit Ethernet, IEEE		
		802.3/5/12, Voice, ISDN, ATM 155 and 622 Mbps.		
	Physical Specification:	Conductor: 23 AWG Annealed bare solid copper		
		Insulation: High Density Polyethylene		
		Core Colour : Pair 1 : White – Blue		
		Pair 2 : White – Orange		
		Pair 3 : White – Green		
		Pair 4 : White – Brown		
		Sheath: Fire Retardant PVC Compound (FRPVC)		
		Approx. Cable OD : 6.5 mm		
		Operating Environment: Indoor		
		Electrical Specification: (at 250 MHz)		
		Standards: TIA / EIA 568 B.2-1, TIA / EIA 568 C.2		
		Impedance: 100 +/- 15 ohm		
		UL listed & ETL verified		

ITEM No. 3 – CATEGORY 6 INFORMATION OUTLET (IO)			
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
3	Angular Face plates (Single / Dual) with shutters		
	Screw cap design for better looking fronts		
	Suitable for use with all RJ45 installations including CAT		
	5, CAT 5e and CAT6		
	RJ-45 sockets With Blanking spacer if required.		
	Single Gang		
	Molded PVC-U		
	Tough shatter resistant PVC		
	Designed for ease of use		
	Square in Size		
	Designed for ease of use		
	Uncluttered internal design		
	PCB based Cat 6 Keystone Jack		
	Spring Contact: 50u" gold over 100u" nickel		
	Should Support T568A/T568B wiring Standards		
ITEM No. 4 – 19" WALL MOUNTED NETWORKING RACK – 12/15U – GENERAL SPECS			
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
4	Rigid frame that can be fixed to the wall		
	Adjustable rails in the front and rear		
	Top and Bottom cable entry facility		
	Front Section with glass door and lock		
	600mm wide x 500mm deep		
	Steel cabinet powder coated light grey		
	Steel door and glass door trims powder coated		
	1U Fan try, 2 fan position, cooling fans,		
	AC power Distribution box equipped with fuse and 2 x Five 5A Socket		
	Front Panel mounting hardware		
	Earth continuity kit		

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	With 5 cable manager		
	With 3 Cantilever shelves		
ITEM No. 5 – 19" FLOOR STANDING NETWORKING ENCLOSURES (22U TO 42U USABLE HEIGHTS)			
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
5	Front doors of Toughened tinted glass		
	Top cover with provision for fan try mounting		
	Rear steel doors - with venting options		
	Stationary and sliding shelves		
	Front Section with glass door and lock		
	Maximum load rating of 350 kgs		
	600mm wide x 1000mm deep		
	Side panel with slam latches		
	Steel door and glass door trims powder coated		
	Bottom cover with gland plate kit 1U Fan try, 4 fan position with 4 cooling fans,		
	Two Vertical AC power Distribution boxes on back side		
	AC Main channels		
	Front and rear mounting angles		
	Earth continuity kit		
	With 8 cable managers		
	With 5 cantilever shelves		
	Keyboard tray sliding with mouse pad		
	Caster with foot-operated brake		
ITEM No. 6 CATEGORY 6 PATCH CORD 1 Mtr. / 3 ft			
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
6	Should conform or exceed the EIA/TIA 568 B standards for CAT 6 Factory molded boots on RJ 45 plugs at both ends		
	Compliance with Cat 6 standards of ISO/IEC 11801, EIA/TIA 568, EN50173 and UL, ETL		
	Length – 3 feet/1m		
ITEM No. 7 CATEGORY 6 PATCH CORD 2 Mtr. / 7 ft			

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Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
7	Should conform or exceed the EIA/TIA 568 B standards for CAT 6 Factory molded boots on RJ 45 plugs at both ends		
	Compliance with Cat 6 standards of ISO/IEC 11801, EIA/TIA 568, EN50173 and UL, ETL		
	Length – 7 feet/2m		
ITEM No. 8 CATEGORY 6 MODULAR PATCH PANEL, ANGULAR (24 PORTS – 1U)			
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
8	Port Patch Panel With Rack Mount		
	RJ45 female ports on front - 110 type wire termination blocks on back		
	Rack mountable		
	Compatible with 23 - 24 AWG solid Conductor UTP cable.		
	Should conform or exceed the EIA/TIA 568 B.2-1 standards for CAT6		
	Fully Compatible with Gigabit Ethernet.		
	Metallic high strength and 1RU height with rear cable manager, Should have ties, labeling strips in label holder for port identification		
	Should have protection on each port to protect from dust ingress and such particles by having shutter or cap.		
ITEM No. 9 802.11A/B/G/N SUPPORTING WIRELESS ACCESS POINTS			
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
9	1 # 10/100/1000T Ethernet Port		
	POE support as per IEEE 802.3af / IEEE 802.3at		
	3 # SMA connectors for connecting up to 5dbi Antenna		
	Standards:	IEEE 802.11n	
		Backward compatible with IEEE 802.11b/g	
	Frequency Range:	2.4120GHz~2.4725GHz	
	Transmit Power:	100mW (20dBm)	
	Software Features:	VLAN as per IEEE 802.1Q	
		Quality of service as per IEEE	

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		802.11e WMM		
		Minimum four level of priority queues, Traffic classifications, Traffic Limitations		
		Multicasting support with IGMP snooping		
		Rate limiting / Bandwidth Limitation		
		Load balancing based on AP user traffic		
		Seamless roaming support		
		Minimum 16 Virtual Access point channels		
		SSID hiding function		
		Access point switch over function		
		IPv6 ready		
	Security Features:	IEEE 802.1x Authentication		
		MAC address Authentication		
		MAC filtering		
		Access control list		
		WEP (WEP64, WEP128) encryption, WPA, 802.11i)		
	Power supply:	External power adapter		
		Input power of Input: 110-240V AC and Output power of 12V DC, 1.5A		
		Power consumption of max 9.9W		
	Management Features:	SNMP protocol		
		Telnet, SSH, HTTP / HTTPS		
		Local and Remote maintenance		
		Syslog		
		Alarm function		
	Environment:	Operating Temperature: 0°C~50°C		
		Operating Humidity 5% ~95% non-condensing		
ITEM No. 10 SPECIFICATION FOR LAYER 2 24 PORT GIGABIT MANAGED SWITCH WITH GBIC PORTS (POE)				
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any	

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10	PORTS	Switch shall support maximum of 24-port 10/100/1000T ports.		
		Shall support POE on 24 # 10/100 ports with IEEE 802.3af support.		
		Shall supply max of 15.4w per POE port.		
		Shall support 4 Shared SFP slots to load 1000T / 1000SX/ 1000LX/1000LHX/1000ZX ports		
		All the 24 # Gigabit ports should operate simultaneously at any point of time.		
		Stackable in nature with IP clustering		
		Static IP routing		
		Sflow/ Netflow for monitoring		
	Transmission method	Store and forward switching		
	Performance	Should support a minimum back plane bandwidth of 60 Gbps with the available		
		Should support a minimum throughput of 38.6Mpps		
		Provides 8 trunk groups of up to 8 member ports		
		Should be stackable in nature.		
		Should support at least 3 or more units per stack.		
		Should support single IP Management.		
		Should support IPv6 Ready features with dual stack.		
		Should support DHCP snooping/relay/optional 82/server for IPv4 and IPv6		
		Should support Sflow		
	VLAN	IEEE 802.1Q VLAN tagging		
		Should support Port based and Private VLAN		
		Should support GVRP		
		Support 255 LAN groups and 4K VLAN IDs		
	Multicast	Should support IGMP v1/v2/v3 Snooping		
	Security	IEEE 802.1x		

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		Support 802.1X and MAC based authentication and IP+MAC+VID binding for different access clients		
		Support management control by AAA and CPU processed traffic control		
		User Authentication using standard based RADIUS server		
		ACL to restrict access to sensitive network resources		
	Quality of Service	Should support for IEEE 802.1p CoS		
		Classification of information in the MAC, IP, and TCP/UDP headers		
		IEEE 802.1P priority Queuing.		
		Should support 4 priority queues.		
		Should support Diffserv		
		Should Support SP, WRR, SWRR, hybrid queuing with SP+WRR		
		IPv6 DSCP		
	IPv6 Features	IPv4/IPv6 Dual Protocol Stack		
		IPv6 unicast address types		
		IPv6 multicast address types		
		ICMPv6 RFC 2463		
		IPv6 Neighbor discovery protocol		
		ICMPv6 Redirect		
		IPv6 Stateless Auto Configuration as per RFC2462		
		IP Version 6 Addressing Architecture (RFC2373)		
		Transmission of IPv6 Packets over Ethernet Networks (RFC2464)		
		MLD v1/v2 Snooping		
		SNMP over IPv6		
		HTTP over IPv6		
		IPv6 SNMP support		
		IPv6 Telnet support		
		IPv6 ACL		
	Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3x, IEEE 802.1p, IEEE 802.1Q, IEEE 802.3ad, IEEE 802.1D, IEEE 802.1s, IEEE 802.1w, IEEE 802.1x		
	Configuration and	SNMP Management, Web Management, Command Line		

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	Management	Interface (CLI), RS-232 console, LEDs for diagnostics		
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(B) IP VIDEO SURVEILLANCE/ CCTV SYSTEM FOR CAMPUS SECURITY

ITEM No. 1 – HIGH DEFINITION, DAY/NIGHT, FIXED-TYPE, CS MOUNT NETWORK COLOR CAMERA-INDOOR			
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
1	10/100 Base-T Ethernet, RJ-45 connector		
	Image sensor of 1/3" Progressive scan CMOS		
	12x digital zoom		
	Should be PoE Enable		
	Varifocal lens with Focal length up to 3.5-8mm		
	Min illumination of 0.1 lux for color and 0.01 lux for B/W		
	S/N ratio > 50 db		
	H.264 and MJPEG selectable		
	Dual streaming with combination of 1) H.264 as both primary and secondary 2) H.264 primary and MJPEG secondary 3) MJPEG primary and H.264 secondary 4) MJPEG as both primary and secondary		
	Video resolution : Primary - 1600*1200, 1280*960, 1280*720; Secondary: 640*480, 320*240, 160*112		
	Real time video resolution of 1280 x 960 with 25 fps		
	Frame rate configurable in increments of 1 frame.		
	GOP (Group of pictures) from 1 to 200 in both Primary and secondary streaming independently.		
	Variable and constant bit rates shall be selectable in both primary and secondary streaming		
	Bitrates shall be configurable from 30k to 16m in both primary and secondary streaming		
	Automatic optimization of FPS, Resolution, quality, Bit rate as per bandwidth (LAN / WAN) in both primary and secondary streaming		
	OSD Onscreen display of min 40 Characters, and min five different selectable colors OSD should support display of Day, Time, week, frame and bitrates.		
	Two way audio support 1 channel MIC input, 1 channel linear output		

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	G.711U, G.711A, G.726 selectable audio codec, 32 K stereo		
	<ul style="list-style-type: none"> Adjustable Input and output volume levels One sensor input and one alarm output Alarm to detect the network failure 		
	<ul style="list-style-type: none"> Alarm Reaction including Snapshot to FTP/email, and Video to FTP Shall support alarm settings on weekly schedule with two different time segments Time should be scheduled with either single setting for whole week or separate time schedule on each and every day of a week. 		
	<ul style="list-style-type: none"> Time settings for alarm delay. Video motion detection with minimum 4 # configurable area Privacy mask with minimum 4 # configurable areas 		
	Image setting for Brightness, Contrast, Sharpness, Gamma, White Balance, Flicker-less, Image Orientation, Shutter Speed, Backlight Compensation, D/N Sensitivity		
	Network protocols including TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, FTP, NTP, PPPOE, SMTP, UPNP		
	<ul style="list-style-type: none"> SD/SDHC memory card slot for local storage Configuration via Web and Software client Firmware upgrade Via Web and software client Internal / Local clock for synchronization 		
	<ul style="list-style-type: none"> Features including Snapshot, Live view, Video recording, Re-play, two way audio, intelligent alarm, digital zoom, manual focus, full screen view, bandwidth control, digital I/O control etc should be accessible via web. Live video streaming on mobile devices 		
	<ul style="list-style-type: none"> Client software shall be provided along with camera which facilitates to search and download video / Images from the SD card remotely. Client software shall provide search option based on date/ time/type Shall be applicable for both indoor 		
	Operating temperature -10°C to 55°C, Humidity 0% ~90% Shall confirm to CE, FCC, RoHS, ONVIF		
ITEM No. 2 – HIGH DEFINITION, DAY/NIGHT, FIXED-TYPE, CS MOUNT NETWORK COLOR CAMERA-OUTDOOR			
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
2	10/100 Base-T Ethernet, RJ-45 connector		
	Image sensor of 1/3" Progressive scan CMOS		
	12x digital zoom		
	Should be PoE Enable		

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Varifocal lens with Focal length of 2.8-12mm		
Deleted		
Min illumination of 0.5 lux for color and 0.03 lux for B/W		
S/N ration > 50 db		
H.264 and MJPEG selectable		
Dual streaming with combination of 1) H.264 as both primary and secondary 2) H.264 primary and MJPEG secondary 3) MJEG primary and H.264 secondary 4) MJPEG as both primary and secondary		
Video resolution : Primary - 1600*1200, 1280*960, 1280*720; Secondary: 640*480, 320*240, 160*112,		
Real time video resolution of 1280 x 960 with 20fps		
Frame rate of 30 fps (NTSC) / 25 fps (PAL)		
Should support both NTSC and PAL standards		
Frame rate configurable in increments of 1 frame.		
<ul style="list-style-type: none"> • GOP (Group of pictures) from 1 to 200 in both Primary and secondary streaming independently. • Variable and constant bit rates shall be selectable in both primary and secondary streaming • Bitrates shall be configurable from 30k to 16m in both primary and secondary streaming • Automatic optimization of FPS, Resolution, quality, Bit rate as per bandwidth (LAN / WAN) in both primary and secondary streaming • OSD Onscreen display of min 40 Characters, and min five different selectable colors • OSD should support display of Day, Time, week, frame and bitrates. 		
<ul style="list-style-type: none"> • Two way audio support • 1 channel MIC input, 1 channel linear output • G.711U, G.711A, G.726 selectable audio codec • Adjustable Input and output volume levels • One sensor input and one alarm output • Alarm to detect the network failure 		
<ul style="list-style-type: none"> • Alarm Reaction including Snapshot to FTP/email, and Video to FTP • Shall support alarm settings on weekly schedule with two different time segments • Time should be scheduled with either single setting for whole week or separate time schedule on each and every day of a week. • Time settings for alarm delay. 		

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	<ul style="list-style-type: none"> Video motion detection with minimum 4 # configurable area Privacy mask with minimum 4 # configurable areas Image settings for Brightness, Contrast, Sharpness, Gamma, White Balance, Flicker-less, Image Orientation, Shutter Speed, Backlight Compensation, D/N Sensitivity 		
	<ul style="list-style-type: none"> Network protocols including HTTP, TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPoE, SMTP, UPNP, ICMP SD/SDHC memory card slot for local storage Configuration via Web and Software client 		
	<ul style="list-style-type: none"> Firmware upgrade Via Web and software client Internal / Local clock for synchronization Features including Snapshot, Live view, Video recording, Re-play, two way audio, intelligent alarm, digital zoom, manual focus, full screen view, bandwidth control, digital I/O control etc should be accessible via web. 		
	<ul style="list-style-type: none"> Live video streaming on mobile devices Client software shall be provided along with camera which facilitates to search and download video / Images from the SD card remotely. Client software shall provide search option based on date/ time/type Shall be applicable for both indoor and outdoor applications 		
	<ul style="list-style-type: none"> IP66 weather proof outdoor housing Vandal resistance Built-in surge and lightning strike protection Camera casing shall support aluminium alloy 		
	<ul style="list-style-type: none"> Casing should have capability to handle abnormal temperature Operating temperature -10°C to 55°C, Humidity 0% ~90% Shall confirm to CE, FCC, RoHS/UL, ONVIF 		
ITEM No. 3 HIGH DEFINITION, DAY&NIGHT DOME---NETWORK CAMERAS-INDOOR WITH HOUSING KIT.			
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
3	10/100 Base-T Ethernet, RJ-45 connector		
	Image sensor of 1/3" Progressive scan CMOS		
	12x digital zoom		
	Should be PoE Enable		
	Varifocal lens with Focal length of 2.8-12mm		
	Deleted		
	Min illumination of 0.5 lux for color and 0.03 lux for B/W		

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S/N ration > 50 db		
H.264 and MJPEG selectable		
Dual streaming with combination of 1) H.264 as both primary and secondary 2) H.264 primary and MJPEG secondary 3) MJEG primary and H.264 secondary 4) MJPEG as both primary and secondary		
Video resolution : Primary - 1600*1200, 1280*960, 1280*720; Secondary: 640*480, 320*240, 160*112,		
Real time video resolution of 1280 x 960 with 20fps		
Frame rate of 30 fps (NTSC) / 25 fps (PAL)		
Should support both NTSC and PAL standards		
Frame rate configurable in increments of 1 frame.		
<ul style="list-style-type: none"> • GOP (Group of pictures) from 1 to 200 in both Primary and secondary streaming independently. • Variable and constant bit rates shall be selectable in both primary and secondary streaming • Bitrates shall be configurable from 30k to 16m in both primary and secondary streaming • Automatic optimization of FPS, Resolution, quality, Bit rate as per bandwidth (LAN / WAN) in both primary and secondary streaming • OSD Onscreen display of min 40 Characters, and min five different selectable colors • OSD should support display of Day, Time, week, frame and bitrates. 		
<ul style="list-style-type: none"> • Two way audio support • 1 channel MIC input, 1 channel linear output • G.711U, G.711A, G.726 selectable audio codec • Adjustable Input and output volume levels • One sensor input and one alarm output • Alarm to detect the network failure 		
<ul style="list-style-type: none"> • Alarm Reaction including Snapshot to FTP/email, and Video to FTP • Shall support alarm settings on weekly schedule with two different time segments • Time should be scheduled with either single setting for whole week or separate time schedule on each and every day of a week. • Time settings for alarm delay. 		
<ul style="list-style-type: none"> • Video motion detection with minimum 4 # configurable area • Privacy mask with minimum 4 # configurable areas • Image settings for Brightness, Contrast, Sharpness, Gamma, White Balance, Flicker-less, Image Orientation, 		

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	Shutter Speed, Backlight Compensation, D/N Sensitivity		
	<ul style="list-style-type: none"> Network protocols including HTTP, TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPoE, SMTP, UPNP, ICMP SD/SDHC memory card slot for local storage Configuration via Web and Software client 		
	<ul style="list-style-type: none"> Firmware upgrade Via Web and software client Internal / Local clock for synchronization Features including Snapshot, Live view, Video recording, Re-play, two way audio, intelligent alarm, digital zoom, manual focus, full screen view, bandwidth control, digital I/O control etc should be accessible via web. 		
	<ul style="list-style-type: none"> Live video streaming on mobile devices Client software shall be provided along with camera which facilitates to search and download video / Images from the SD card remotely. Client software shall provide search option based on date/ time/type Shall be applicable for both indoor and outdoor applications 		
	<ul style="list-style-type: none"> IP66 weather proof outdoor housing Vandal resistance Built-in surge and lightning strike protection Camera casing shall support aluminum alloy 		
	<ul style="list-style-type: none"> Casing should have capability to handle abnormal temperature Operating temperature -10°C to 55°C, Humidity 0% ~90% Shall confirm to CE, FCC, RoHS/UL, ONVIF 		
ITEM No. 4 HIGH DEFINITION (HD), PAN/TILT/ZOOM (PTZ), DAY/NIGHT, NETWORK RAPID DOME CAMERA			
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
4	10/100 Base-T Ethernet, RJ-45 connector		
	Image sensor 1/3" 1.3 Megapixel Progressive Scan CCD sensors.		
	18x Optical Zoom and 12x digital zoom and total Zoom of 216x		
	Focal length up to 84.6 mm		
	Angle of view 55.2°~3.2°		
	Min illumination of 0.1 lux for color and 0.02 lux for B/W		
	S/N ration > 50 db		
	Auto / Manual Focus mode		
	Auto Iris with Manual Override/ non-IRIS mode selectable through software		

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IR cut Filter		
Auto and Manual mode of Automatic white balance (AWB) selectable through camera web client and NVR software		
Auto/Manual mode of AGC selectable through camera web client and NVR software		
Auto/Manual AGC setting from 1 to 255		
<ul style="list-style-type: none"> Auto and Manual mode of back light compensation (BLC) selectable through camera web client and NVR software Auto and Manual mode of Wide dynamic range (WDR) selectable through camera web client and NVR software Auto exposure 		
<ul style="list-style-type: none"> Selectable shutter speed ranging from 1/1 to 1/10k H.264 and MJPEG selectable Dual streaming with combination of 1) H.264 as both primary and secondary 2) H.264 primary and MJPEG secondary 3) MJEG primary and H.264 secondary 4) MJPEG as both primary and secondary Video resolution - Primary: 1280 x 960, 1280 x 720; Secondary : 640 x 480, 320 x 240, 160 x 112 		
<ul style="list-style-type: none"> Real time video resolution of 1280 x 720 with 25fps Frame rate configurable in increments of 1 frame. GOP (Group of pictures) from 1 to 200 in both Primary and secondary streaming independently. Variable and constant bit rates shall be selectable in both primary and secondary streaming Bitrates shall be configurable from 30K to 16M in both primary and secondary streaming 		
<ul style="list-style-type: none"> Automatic optimization of FPS, Resolution, quality, Bit rate as per bandwidth (LAN / WAN) in both primary and secondary streaming OSD Onscreen display of min 40 Characters, and min five different selectable colors OSD should support display of Day, Time, week, frame and bitrates. 		
<ul style="list-style-type: none"> Two way audio support 1 channel MIC input, 1 channel linear output G.711U, G.711A, G.726 selectable audio codec Adjustable Input and output volume levels PAN travel of 360° endless Tilt Travel 0°~ 180° PAN/Tilt preset speed of up to 400°/s 		
<ul style="list-style-type: none"> Should support minimum 250 Presets points Minimum 16 groups of tour with min 16 preset positions per tour and 2 # predefined preset tour. 		
<ul style="list-style-type: none"> Deleted Speed Control of the PAN/ Tilt as per the Zoom ratio 		

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	<ul style="list-style-type: none"> Auto guard tour should be automatically restarted once the power resumes. Enable/Disable options for Mirror and Flip image, Flicker control support 		
	<ul style="list-style-type: none"> Input and Output alarm Alarm to detect the network failure Alarm Reaction including Preset, Sequence, Auto pan, Cruise, Snapshot to FTP/email, and Video to FTP 		
	<ul style="list-style-type: none"> Shall support alarm settings on weekly schedule with two different time segments Time should be scheduled with either single setting for whole week or separate time schedule on each and every day of a week. Time settings for alarm delay. Video motion detection with minimum 4 # configurable area Privacy mask with minimum 4 # configurable areas 		
	<ul style="list-style-type: none"> Network protocols including HTTP, TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP, ICMP SD/SDHC memory card slot for local storage Configuration via Web and Software client 		
	<ul style="list-style-type: none"> Firmware upgrade Via Web and software client Internal / Local clock for synchronization Features including Snapshot, Live view, Video recording, Re-play, two way audio, Intelligent alarm, optical / digital zoom , manual focus, full screen view, PTZ control, preset setting, bandwidth control, digital I/O control etc should be accessible via web. 		
	<ul style="list-style-type: none"> Live video streaming on mobile devices Client software shall be provided along with camera which facilitates to search and download video / Images from the SD card remotely. Client software shall provide search option based on date/ time/type Shall be applicable for both indoor and outdoor applications 		
	<ul style="list-style-type: none"> IP66 weather proof Built-in surge and lightning strike protection Built-in standard heater and FAN 		
	<ul style="list-style-type: none"> Casing should have capability to handle abnormal temperature Operating temperature -10°C to 55°C, Humidity 10% ~90% Shall confirm to CE, FCC, RoHS/UL, ONVIF 		

ITEM No. 5 SPECIFICATIONS – VIDEO ANALYTICS, RECORDING SOFTWARE & MANAGEMENT

Sr No.	Item Description	Matched/ Not	Deviation/Remarks, if any
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		Matched	
5	Video Analytics & Recording Software		
	OS Support: Microsoft Windows® XP, Windows® 2003, Windows® 2008 R2, Windows® Vista, Windows® 7.		
	Management screen: Lock, unlock with password support.		
	User management: Minimum 20 user account with different privilege levels		
	Only Admin shall have option to create the user accounts and assign operation authority to the users		
	<ul style="list-style-type: none"> Only user shall have option to create / change password for their respective account. Password support for all the user accounts avoid unauthorized user login Operation privilege authority: Software configuration setting, Camera assignment to the channels, System Log management, Event management rights, Event configuration settings, Connecting/ Disconnecting cameras, Video / Audio Recording, Login to the camera via software, Camera configuration management via software, Video settings management, Matrix control for splitting the screen (1, 4, 9, 16, 25, 36, 49, 64), Alarm Output control, Play back option, Login and exit system 		
	<ul style="list-style-type: none"> PTZ Control support: Manage pan, tilt, zoom operation with speed control, Goto, set clear preset positions and patrol on preset positions, Patrol preset positions with user-defined time. Expandable PTZ command support: User defined PTZ command to support additional PTZ protocols. On-screen 4-direction PTZ operation with mouse operation. This can be run under full-screen mode as well. Should support Minimum 250 preset positions settings 		
	<ul style="list-style-type: none"> Interface control: Control Joystick support, Preset position setup, Preset position search, Optical zoom in, Zoom out, Focus in / focus out, Digital zoom in / out, Full screen view enable/disable, Camera image connect/disconnect, Camera configuration login / logout, Group connect / disconnect Should support minimum 64 Channels in single screen Should support up to 30 FPS per channel. Shall support total of 1024 cameras in single software to handle current and future scalability. 		
	<ul style="list-style-type: none"> The VMS software should support H.264, MJPEG Dual streaming Group Settings: Shall support 25 groups with 64 cameras in each group, Different matrix screen to different groups, Connect and Disconnect the cameras group vice, Start and stop video recording group vice, 		

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	Log-in and Log-out of camera setting group vice, Groups shall be listed in the dash board as tree structure for easy access		
	<ul style="list-style-type: none"> The software should support dual monitors. Screen Display: 64 channels in single screen and E-map control on second screen Auto Tour: user selectable options start from 5 seconds to 2 minutes with increment of 1 second 		
	<ul style="list-style-type: none"> Full Screen Support, Display mode support: 1, 4, 9, 16, 25, 36, 49 and 64 split screen matrix view layout setup Status display: Camera status. Time: Real time clock with day, date, time, year 		
	<ul style="list-style-type: none"> Audio: 2-way audio support and audio broadcasting support Event Trigger Motion detection: minimum 4 selectable area System event : shutdown, restart, login, logoff, Camera reboot, external I/O trigger Audio alarm: user defined audio alarm during event. Different audio source of each event. User defined audio alarm sound. From 1~60 seconds 		
	<ul style="list-style-type: none"> Pop-up Window: Mini-preview window should be popped-up when event occurs. Pop-up window should be dismissed when security operator clicks on the "close" button. Should able to clear and delete the events in pop-up window once acknowledged Emergency Control on pop-up window: audio broadcasting and internal / external control trigger. Recording: Recording Type: schedule, continuous, manual, motion and event. Recording Recycle: Auto, FIFO mode. Audio and video simultaneous recording, Pre-record/Post-record support 		
	<ul style="list-style-type: none"> Storage Local storage Path: minimum 5 simultaneous selectable path Network storage path: ISCSI, network share, NAS. Protocols: HTTP, TCP, UDP, FTP, Multicast. Playback: search - Channels, date and time from local and network storage. Create Snapshots - To create snapshot images on-the-fly and can be searched as an event. Event Playback - Channels date and time range from video loss, motion detection and manual recording. 		
	<ul style="list-style-type: none"> Browse and select video from any local and network storage, Predefined – 4 different pre defined time slot for video and image search, Enable and disable audio Multi channel playback: 4-channel synchronized playback at the same time. Video Editing: Cut and edit the playback video on the fly. Export the video to local and network storage instantly. Digital Zoom: User should be able to zoom in/out the 		

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	<ul style="list-style-type: none"> video display during playback Playback mode: Play, Pause, Stop, Fast Forward, Fast rewind, Play Backward, repeat, Play frame by frame, 1/2/4x Speed Control Video Search by external alarm input trigger. 		
	<ul style="list-style-type: none"> Remote Playback: search - Channels, date and time from local and network storage, Remote Create Snapshots - To create snapshot images on-the-fly and can be searched as an event. Remote Event Playback search - Channels date and time range from video loss, motion detection and manual recording. Browse and select video from any local and network storage Predefined – 4 different pre defined time slot for video and image search 		
	<ul style="list-style-type: none"> Remote Multi channel playback: 4-channel synchronized playback at the same time. Video Editing: Cut and edit the playback video on the fly. Export the video to local and network storage instantly. 		
	<ul style="list-style-type: none"> Digital Zoom: User should be able to zoom in/out the video display during playback Playback mode: Play, Pause, Stop, Fast Forward, Fast rewind, Play Backward, repeat, Play frame by frame, 1/2/4x Speed Control Video Search by external alarm input trigger. Image Export JPEG E-Map Multi E-map layers support, Indicator camera & I/O, Add , chan, ge and delete map, Aram indication on red when event occurs in camera. Event based E-map popup trigger. 		
	<ul style="list-style-type: none"> Playback the camera event from the map Unlimited E-map pictures Camera Preview Storage/Backup Multiple local Storage Support Network Storage Device Support CD & DVD Burning and USB backup support 		

ITEM No. 6 CONFIGURATION & SPECIFICATION FOR VIDEO SURVEILLANCE SERVER

Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
6	The Server shall be Dual Core Intel Xeon 3 GHz.		
	The Video Recorder shall have the minimum following specifications:		
	Intel® Dual Core 3.0 GHz CPU – Example: Dual Core Intel Xeon®		
	System memory 8 GB of RAM minimum		
	Display card with 1GB dedicated RAM and 700 or higher graphics clock.		

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	DVD drive		
	Two separate hard drives or two sets of RAID arrays		
	Disk / RAID set 1 utilizes 10K RPM SATA 150 GB or 10K-15K RPM		
	SAS 146 GB for Windows operating system		
	Disk / RAID set 2 utilizes 10K RPM SATA 150 GB or 10K-15K RPM SAS 146 GB.		
	Dual Gigabit Network Interface Card (NIC) or compatible pair of NICs.		
	Key Board & Mouse		
	Display adapter with video resolution 1024x768 pixels; 32-bit color or higher		
	Operating System Required for Server		
	Windows Media Player Version 9 or 10		
ITEM No. 7 CONFIGURATION & SPECIFICATION FOR STORAGE SYSTEM FOR VIDEO SURVEILLANCE & RECORDINGS ON A 24 X 7 X 15 DAYS BASIS			
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
7	Should support enterprise proven RAID technology with RAID 0,1,5, and 10 options while providing high performance RAID 5 with 30+ MB/s Sequential Write and 40+ MB/s sequential Read.		
	Support for volume expansion, online RAID level migration, advanced error handling, HDD roaming and hot spare options.		
	Serve as a data center for sharing of digital files viz. images, audio, videos, etc. Allow access to these stored digital files from anywhere on the Internet including Jumbo Frame support.		
	Interface support for 2# USB and 1# eSATA ports. USB port to support external hard drive and network printer. Option for One-touch backup to external hard drive or device via USB.		
	Support snapshot technology for instant backup and restoration. Support NAS-to-NAS replication for remote backup and automatic backup for Client-to-NAS backup.		
	DLNA certified with support for Digital Media Server to access media files via Digital Media Players on the Network with mobile device and remote access support		
	Microsoft ADS support, FTP,SMB,CIFS, AFP and NFS network protocol support shared storage for Windows; support for UNIX, Linux and Mac OS X clients		
	Conformance to RoHS environmental standards. Support standby feature by allowing hard drives to spin-down reducing power consumption while		

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	inactive and Wake-on-LAN for automatic Power-on on accessing the data on the storage server.		
	Intuitive graphic user interface to enable easy management and installation. System management support for IE6 or above, Opera, Firefox1.5, Netscape 7.0, Safari. Unicode support and management protocols support like HTTP/HTTPS, NTP, SMTP and ADS		
	Alert notifications via email, audible Buzzer and visible LEDs.		
	LAN supporting 10/100/1000 Mb/s transmission speeds on IEEE standards 802.3i(10Base-T),802.3u(100Bas-TX),802.3ab(1000Base-T)		
	Four bay portable server supporting 4 x 3.5" SATA, 3 Gb/s and 1.5 Gb/s HDDs with drives with hot swappable drives and spin down options for system standby mode.		

ITEM NO. 8 2KVA ONLINE UPS WITH 1 HOUR BATTERY BACKUP

Sr No.	Item Description		Matched/ Not Matched	Deviation/Remarks, if any
8		Online UPS with PWM Technology suitable for single Phase AC input voltage		
		UPS shall be housed in rugged enclosure made of M.S. Sheet 1.2 mm (minimum) thick, aesthetically finished, duly pre-treated and powder coated.		
		UPS shall be free from workmanship defects, sharp edges, nicks, scratches, burs etc. All fasteners shall be fixed properly. The equipment shall be complete with all parts and all parts shall be functional		
		Enclosures shall conform to protection requirement of IP2L1 to ISI:3947 (Part 1)/1993 (reaffirmed 1998)		
	Bypass Switch	Manual and Static by-pass switch shall be provided for maintenance of UPS		
		UPS shall supply output power and charging current at the same time		
	Switching Device	Switching Device shall be IGBT		
		Switching frequency shall be 19 KHz or above		
		UPS shall be provided with serial communication port RS 232 for computer interface for data exchange of electrical parameters of UPS like voltage, current, frequency, charging status, mode of operation etc.		
	Rating	The rating specified is a unity power factor		
	INPUT			

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Voltage Range	160 V – 260 V		
Frequency Range	50 Hz +/- 10Percent Hz		
Phase	Single Phase AC		
OUTPUT			
Voltage Regulation	230 V +/-2Percent (with alternative setting for 220V +/- 2Percent)		
Output Frequency	50 Hz +/- 1 Hz Single Phase (In inverter mode)		
Voltage regulation	From on load to full load Should be within +/-1Percent in both the cases, UPS shall also have facility for operation in synchronous mode in which output frequency shall be same as that of mains frequency		
Harmonic Distortion	2Percent max. on resistive load		
Efficiency	At rated Output voltage and Frequency		
Inverter	90Percent (min)		
Overall	85Percent (min)		
Power Factor			
Load Power Factor	Better than 0.65 lagging		
UPS power factor	Better than 0.9 lagging		
Over load	UPS shall withstand 20Percent overload for 5 minutes and 50Percent overload for 1 minute		
ENVIRONM ENT	Noise Level – less than 55 db at a distance of 1 meter		
Protection	Over voltage, short circuit and overload at UPS output terminal, Under voltage at battery terminal, Overshoot and undershoot shall not be greater than 4Percent of rated voltage for duration of 60 msec		
Indicators	Mains Presence, Battery Charging and Discharging, Low battery voltage		
Digital meters	“Input AC Voltage, Output AC Voltage, I/o Frequency, O/p Frequency, Load Percentage, Battery Backup available in percentage, (with LED\ LCD display)”		
Battery Detail	3200 VAH for 2 KVA - 60 min		
Battery Type	Sealed Maintenance Free (VRLA)		
Battery Make	Exide/Quanta/CSB/Panasonic (Battery Sr. No on OEM Letter Head with Warranty Assurance of 1 years)		
ITEM NO. 9 32" OR HIGHER LCD MONITOR			

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Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
9	32" (31.5" diagonal) or higher LCD monitor with Composite AV Port (1 Video & 2 Audio)		
	Dynamic contrast ratio: 6000:1 or better		
	Resolution : 1366 x 768 dpi or better		
	Inbuilt speakers of min. 5 + 5 watts, stereo sound		
	PC input, 2 x HDMI Interface		
	Monitor should be Energy Star 5.0 or Bureau of Energy Efficiency (BEE), Gol 5 Star rating certified. (The quoted LCD monitor should have been listed in the Energy Star 5.0 certified product list available on www.energystar.gov or should have BEE 5 Star rating at the time of bid submission)		
	This monitor needs to be supplied with all necessary accessories including wall mount kit		

(C) IP BASED ACCESS CONTROL SYSTEM

ITEM No. 1 – ACCESS CONTROLLER (IPBASED) CAPACITY 4/8 DOOR				
Sr No.	Item Description		Matched/ Not Matched	Deviation/Remarks, if any
1	Hardware	CPU RENESAS M32C84		
		512 kB-EPROM/FLASH		
		256 kB-SRAM		
		Serial EEPROM		
		RTC		
		Pluggable 2 GB compact flash		
		Battery for SRAM and RTC		
		Host address can be set via sliding switch Host interface: -RS485/ Wiegand (2- or 4-wire); opto-decoupled -RS232 - Ethernet 10/100BaseT (TCP/IP) with RJ45		
		4 reader interfaces: -RS-485, 2-wire, opto-coupled, 19.200 Bd		
		8 relay outputs: -max. switching voltage: 30 V DC -max. switching current: 1,25 A 8 monitored analog inputs Tamper switch Reset button		

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Temperature	0°C to +45°C (32°F to 113°F)		
Power supply	10 to 30 VDC, max. 60 VA		
Available for external devices	55 VA		
Environment class	IP 30		
Housing Base	PPO (UL 94 V-0)		
Upper	Polycarbonate (UL 94 V-0)		
Color	White		
Dimensions WxHxD	232 x 90 x 63 mm (9.13 x 3.54 x 2.48 in.)		
Weight	Approx. 0.53 kg (1.17 lb)		
Type	Rail mounting		

ITEM No. 2 – PROXIMITY CARD READERS

Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
2	Proximity card readers are for access control and time attendance. From simple door control to complex networked environment this reader supports full functionality of time attendance and access control.		
	The reader should have LCD display for displaying information of the Member/Visitor. It should have keypad for password based access.		
	Technical Specifications		
	CPU:	400 MHz DSP	
	Memory:	8 MB flash + 16 MB RAM	
	Fingerprint	sensor 500 dpi optical sensor	
	Identification speed	2,000 matches in 1 second	
	Fingerprint capacity	5,000 fingerprints (10,000 templates)	
	Log capacity	50,000 events	
	RF card	Mifare (13.56 MHz)	
	Authentication	Finger and/or PIN and/or Card	
	Network interface	TCP/IP, RS485	

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	TTL I/O	2 inputs for exit switch and door sensor		
	Internal relay	Deadlock, EM lock door strike, automatic door		
	Ingress protection rate	IP 54 class		
	LCD	128 x 64 pixel, black & white		
	Keypad	3 x 4 keypad, 3 navigation keys		
	Sound and interface	Multi-color LED and multi-tone buzzer		
	Operating voltage	12 Vdc		
	Size (W x H x D)	60 x 185 x 40 mm		

ITEM No. 3 – ELECTRO MAGNETIC LOCK

Sr No.	Item Description		Matched/ Not Matched	Deviation/Remarks, if any
3	Specifications	EM-600-T		
	Lock Size	250 x 48 x 25mm ³		
	Magnet	180 x 38 mm ³		
	Armature	180 x 38 x 12mm ³		
	Voltage	12V		
	Current	500ma at 12V		
	Holding Force	600 LBS		

ITEM No. 4 – ENTRANCE CONTROL – TURNSTILE DOOR

Sr No.	Item Description		Matched/ Not Matched	Deviation/Remarks, if any
4	Material: Stainless Steel AISI 304 (1.4301 as for EN10088-1) Or Mild Steel			
	Orientation: Pass Left or Pass Right			
	Tripod Arms: 38mm diameter 458mm +/- 10%			
	Function: Passage in both directions, electronically controlled			
	. Mechanism: Control of the Tripod operation is achieved by an electro mechanical head mechanism located within the top section of the turnstile casework. The unit has the following features as standard: Normally Closed – The mechanism is locked until a valid authorization signal is received. Normally Open – The mechanism is permanently unlocked and will only lock if passage is attempted without a valid authorized signal. In this mode the MCBF is increased from			

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	1.5 to 2.5 million cycles and increases passage through put speeds.		
	Power Failure: In the event of an emergency or isolation of the power supply, Tripod can be configured to Fail-Safe i.e. rotates freely or Fail-Lock i.e. locks in the HOME position. Either option is available in both or one direction.		
	<p>Emergency The turnstile offers an input (0V normally closed) in order to receive an Emergency /Fire Alarm remote command (by others).</p> <p>When this command is active, the control logic releases the rotation of the tripod in both directions. This condition will remain for the duration of the signal being received by the control logic.</p> <p>If the turnstile is equipped with the optional drop arm device & when the Emergency command is active, the arm in the home position is released in order to leave the passageway open.</p>		
	<p>Locking Device The locking action is performed by the heads of the rocker arms on the teeth of the toothed cam assembly. The polyurethane toothed cam, which is part of the toothed cam assembly, reduces the noise produced by the action of the rocker arms on the cam teeth.</p> <p>Cam profile is designed so that the shaft rotation may be locked at 15 degree intervals. The rocker arms are pivot-mounted on the bases and are moved by the moving cores of two solenoids mounted to the base.</p> <p>One of the solenoids locks clockwise, the other anti-clockwise rotation. The locking device is available in two versions:</p> <p>(1) Fail Lock, locks the turnstile in the absence of the power supply.</p> <p>(2) Fail Safe, releases the turnstile in the absence of the power supply.</p> <p>In the Fail Locked version, activation of the solenoid causes the rocker arm to move and disengage the cam teeth. The turnstile is therefore free to rotate in one direction. When the solenoid is deenergised, the rocker arm is returned to the locking position by the action of a spring.</p> <p>In the Fail Safe version, activation of the solenoid causes the rocker arm to move to engage to the cam teeth and prevent turnstile rotation in one direction. When the solenoid is de-energized, the rocker arm is returned to the released position by the action of the spring.</p>		
	<p>Damper The function of the damper is to adjust the force exerted by the spring on the rotary unit in order to ensure that the unit comes to a gentle stop.</p> <p>During the first half of rotation (rising profile in the guide way) the damper expands and in the second half (falling profile), it contracts. During the entire rotation, the damper exerts a braking force in proportion to the rotation speed.</p>		

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	<p>Anti Reversal Device The anti-reversal device is used to prevent rotation of the rotary unit in the opposite direction to that of the initial rotation. This means that once the Tripod has been moved in one direction, the device will prevent a reverse movement in the opposite direction. This function (like the locking function) is achieved by the action of the rocker arm heads on the teeth of a toothed cam assembly. The anti-reversal action is applied by solenoid A, if the initial direction of rotation is B and by solenoid B if the initial direction of rotation is A. The anti-reversal device comes into effect after the unit has rotated through 60 degree, in this case the mechanism locks the nearest of the following angular positions 60 degree, 75 degree, 90 degree and 105 degree</p>		
	<p>MCBF: 1.500.000 cycles (normally closed mode), 2.500.000 cycles (normally open mode). IP degree of protection: IP20</p>		
	<p>Mechanism should be positive locking action for one person at a time.</p>		
	<p>It should have self centering motion, so that one complete rotation takes place till its home position.</p>		
	<p>Power Supply : 230 Vac 50Hz.</p>		
	<p>Operating Temperature should be 0 to +45 degree Celsius.</p>		
	<p>Humidity RH95% non condensing</p>		
	<p>IP rating should be min IP20 or more.</p>		
	<p>Drop arm option: the horizontal arm drops to create a clear passage for evacuation.</p>		
ITEM No. 5 – PROXIMITY CARDS			
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
5	Proximity Cards including photo-id and other printing as per client		
ITEM No. 6 – UTP CAT6 CABLE FOR INTEGRATION OF DOOR ACCESS CONTROLS			
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
6	UTP CAT6 cabling for integration of door access controllers to central server - Supply and laying of specified make UTP CAT6 cable in pre-laid PVC conduits / pipes / raceway, but without the cost of raceway or pipe. (The cable is to be drawn from individual controller to the central communications/server room. Terminations to be carried out in any intermediate wiring closets/telecom closets by way of racks/MDF/IDF).		
ITEM No. 7 – 8 CORE 14/38			
Sr	Item Description	Matched/	Deviation/Remark



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No.		Not Matched	s, if any
7	Supply and Laying of 8 core 14/38, multi strand flexible data cable.		
ITEM No. 8 – PVC CONDUITS			
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
8	PVC Conduits Supply & laying of 25 mm dia. open/conceal manner heavy guage rigid PVC pipe as per tender specifications.		

(D) DEVELOPMENT OF WEB BASED APPLICATION SOFTWARE GYMKHANA MANAGEMENT

ITEM NO. 1 – WEB BASED SOFTWARE APPLICATION			
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
1	Web based Software Application for System Configuration, Management & Diagnostics, Basic Time Attendance and Leave Management Application as specified in bid		

(E) TELEVISION DISTRIBUTION

ITEM : TELEVISION DISTRIBUTION			
Sr No.	Item Description	Matched/ Not Matched	Deviation/Remarks, if any
1	Television Distribution - Supply, installation, connection, testing and commissioning of television system with supplying of television cables as per specification and drawings. The unit rate considered on running meter basis includes supply, laying, connection, testing and commissioning of television cables through rigid PVC conduit from junction of Data Room. The cable shall be installed in a concealed manner in the vertical riser including supply & fixing splitter / Junction box of specified make.		
2	Supply & laying of 25 mm dia. PVC conduit to be laid in open/concealed manner.		
3	Supplying and Laying of RG 6 TV cable in prelaidd conduit		
4	Supplying and Laying of RG 11 TV cable in prelaidd conduit		
5	Supply & fixing of 3/4 way splitter		
6	Supply & fixing of 6 way splitter		
7	Supplying, installing, testing and commissioning of one		



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	television point to be done with television outlet socket and box of the APPROVED make.		
8	Supply/ Installation of analogue Telephone Instrument (Push Button Type) – TEC Approved with accessories Brand: Beetel, Coral/ Secure		

Note: Bidder has to upload compliance letters from OEM's for all above items showing line by line compliance with the tender specification as mentioned in Section 5 of RFP.

TECHNICAL BID FORMAT FOR APPLICATION DEVELOPMENT OF GYMKHANA

1. The bidder will have to develop the application software directly or take help of software Development Company and either bidder or software Development Company must fulfill the following criteria.
 - (a) Bidder or Software Company should have at least 3 years experience in software development. The work order to substantiate the experience of 3 year need to be attached (**Form E6**).
 - (b) Bidder or Software Company should have experience in developing web based or server client based software for either any club/sports complex/building/large campus facilities/shopping mall etc. Copies of work order & Completion from Customer should be submitted (**Form E7**).
2. Bidder is required to employ or take the services of minimum 3 domain experts while developing this application & Integration with management system & club facility. It is expected that the successful bidder will use the expertise of a person/ company who have managed following sports facilities
 - Swimming
 - Fitness centre
 - One of the following: Tennis, Badminton or Table Tennis.

The bidder is required to provide the Resume of the person/ company in the Technical Section of the bid to whom they proposed to take the services. Bidder is expected to take the services of this minimum 3 domain experts while developing this application & Integration with management systems and club facility.

Bidder has to provide Methodology & Approach about their plan of application development

- Details of Manpower, services and experience of proposed Software Development Company.
- Details of offered application software design and development of Gymkhana Management software.
- Please provide detailed write-ups including methodology & scope of work.
- The interested agencies may be called for the presentation to highlight the significant aspects of their offered solution.

The Technical Bid will be examined by the evaluation committee on the basis of responsiveness to the

- (A) Technical specification of Hardware equipments,
- (B) Credential of Software Development Company (as per Technical Bid Format of Software) and
- (C) Credential of domain expert whether they are as per the bid.

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The purpose of such presentations would be to allow the bidders to present their technical proposal, Methodology & Approach and quality of the professionals proposed to the committee and other key points in their proposals

The evaluation committee may require verbal/written clarifications from the bidders. The primary function of clarifications in the evaluation process is to clarify ambiguities and uncertainties arising out of the evaluation of the bid documents. Verbal clarifications provide the opportunity for the committee to state its requirements clearly and for the bidder to more clearly state its proposal. The committee may seek inputs from their professional, technical Faculties in the evaluation process.

The Financial bids of those bidders who qualify the technical evaluation will only be opened.

SECTION: 6

FINANCIAL BID FORMAT

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SECTION – 6

FINANCIAL BID FORMAT

Sr. No	Item Description	Uo M	Bid Qty (In Nos.)	Unit Price With 1 year warranty (In Rs.) (Without C.S.T. & VAT & Service Tax)	Cost of 2 nd & 3 rd year warranty (In Rs.) (Without C.S.T. & VAT & Service Tax)	Unit Price with total 3 years warranty (In Rs.) (Without C.S.T. & VAT & Service Tax)	Total Price With 3 years warranty (In Rs.) (Without C.S.T. & VAT & Service Tax)	Rate of VAT / C.S.T. in any (%)	Rate of Service Tax if any (%)
1	2	3	4	5	6	7=(5+6)	8=4*7	9	10
A	VOICE & DATA DISTRIBUTION								
1	PVC Conduits Supply & laying of 25 mm dia. heavy gauge HMS rigid PVC conduit to be laid in open/concealed manner.	Rmtr	1000						
2	Telephone / Data Networking Cabling Supply and laying of specified make UTP CAT6 cable in prelaidd PVC conduits / pipes / raceway. The cable is to be drawn from individual workstation/desktop area to the central communications/server room/floor rack/intermediate telecom closet. (LAN_Cabling)	Rmtr	4000						

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3	SITC of Single UTP CAT6 RJ-45 I/O of specified make including faceplate for single/dual IO and MS backbox assembly, inclusive of termination of CAT6 cable at each IO at workstation area / desktop / or at a patch panel inside a rack.	Nos	175						
4	Supply, Installation, Testing and Commissioning of Networking Enclosure - wall mounted, 19" mounting frame, usable height 12U, 750mmH x 600mmW x 450mmD	Nos	3						
5	Supply, Installation, Testing and Commissioning of Networking Enclosure - Floor Standing, 19" mounting frame, usable size 22U, 800mmW x 1000mmD as per Tender Specifications	Nos	1						
6	UTP CAT6 RJ45 Ethernet Patch Cord – 1Mtr/3ft	Nos	175						
7	UTP CAT6 RJ45 Ethernet Patch Cord – 2Mtr/ 7ft	Nos	175						
8	Supply and Installation of UTP CAT6/6A Gigabit Modular Angular Patch Panel for 24 ports in 1U form factor as per	Nos	9						

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	the tender specifications, with universal A/B labeling and 110 connector terminations on rear of panel allowing for quick and easy installation of 22 to 24 AWG cable.								
9	Supply, Installation, Testing and Commissioning of Wireless Access Point supporting 802.11a/b/g/n (as per the tender specification)	Nos	6						
10	Supply, Installation, Testing and Commissioning of Layer 2 manageable switch, 24 ports 10/100/1000 Mbps, auto MDI/MDX, auto-sensing, supporting minimum 2 nos. 1000Mbps Copper or ofc shared uplinks, PoE for IP end-points	Nos	9						
B	IP VIDEO SURVEILLANCE/ CCTV SYSTEM FOR CAMPUS SECURITY								

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1	Supply, Installation, Testing and Commissioning of IP network cameras fixed, CS mount type, PoE, High Definition inclusive of indoor housing as per tender specifications.	Nos	18						
2	Supply, Installation, Testing and Commissioning of IP network cameras fixed, CS mount type, PoE or 24VAC/12VDC, High Definition inclusive of IP 66 rated and vandal proof outdoor housing as per tender specifications.	Nos	10						
3	Supply, Installation, Testing and Commissioning of High Definition fixed dome network cameras, PoE, inclusive of housing for indoor operation, as per tender specifications.	Nos	12						
4	Supply, Installation, Testing and Commissioning of High Definition format 360 degrees endless PTZ network cameras, PoE as per IEEE 802.3a/f/t or 230VAC/48VDC, inclusive of IP66	Nos	1						

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	rated vandal proof housing for outdoor operation, as per tender specifications.								
5	Supply, Installation, Testing and Commissioning of Central Management application for comprehensive management of the IP surveillance network for upto 32 camera registrations	Nos	1						
6	Supply, Installation, Testing and Commissioning of Server as per specification mentioned in Section 5 of RFP	Nos	1						
7	2 KVA online UPS with one hour back up along with cabinets,	Nos	1						
8	Supply, Installation, Testing and Commissioning of Network Attached Storage minimum 4TB HDD as per specifications for achieving above storage capabilities inclusive of server hardware.	Nos	1						
9	SITC - HDMI 2.x compliant LCD display panel 32" or above as per tender specification for monitoring as per tender specifications.	Nos	1						

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10	Supply, Installation, Testing and Commissioning of Indoor UTP CAT6 cabling for IP based network cameras as per tender specifications.	Rmtr	2000						
11	Supply & laying of 25 mm dia. Heavy gauge HMS rigid PVC conduit to be laid in open/concealed manner.	Rmtr	750						
C	IP BASED ACCESS CONTROL SYSTEM INCLUDING APPLICATION SOFTWARE								
1	SITC of IP based Serial Controller supporting 4 Door with 4 relay. (Access Control)	Nos.	7						
2	SITC of Smart Card Reader/Proximity reader with multi functionality like Biometric based and keypad for access control	Nos.	13						
3	Tripod Turnstiles, with Controller, hardware, Ethernet connectivity and integration with access control system	Nos.	4						
4	SITC of Electromagnetic lock 600lbs capacity with all accessories and cabling	Nos.	6						

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5	SITC of Exit Switch with door controller	Nos.	1						
6	Proximity Cards including photo-id and other printing as per client	Nos.	2000						
7	UTP CAT6 cabling for integration of door access controllers to central server - Supply and laying of specified make UTP CAT6 cable in prelaidd PVC conduits / pipes / raceway, but without the cost of raceway or pipe. (The cable is to be drawn from individual controller to the central communications/server room. Terminations to be carried out in any intermediate wiring closets/telecom closets by way of racks/MDF/IDF).	Rmtr	1000						
8	Supply and Laying of 8 core 14/38, multistrand flexible data cable.	Rmtr	500						
9	PVC Conduits Supply & laying of 25 mm dia. open/conceal manner heavy guage rigid PVC pipe as per tender specifications.	Rmtr	500						
D	APPLICATION SOFTWARE DEVELOPMENT								
1	Web based	Nos.	1						

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	Software Application for System Configuration, Management & Diagnostics, Basic Time Attendance and Leave Management Application								
E	TELEVISION DISTRIBUTION								
1	Television Distribution - Supply, installation, connection, testing and commissioning of television system with supplying of television cables as per specification and drawings. The unit rate considered on running meter basis includes supply, laying, connection, testing and commissioning of television cables through rigid PVC conduit from junction of Data Room. The cable shall be installed in a concealed manner in the vertical riser including supply & fixing splitter / Junction box of specified make.								
2	Supply & laying of 25 mm dia. PVC conduit to be laid in open/concealed	Rmtr	200						

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	manner.								
3	Supplying and Laying of RG 6 TV cable in prelaidd conduit	Rmtr	200						
4	Supplying and Laying of RG 11 TV cable in prelaidd conduit	Rmtr	200						
5	Supply & fixing of 3/4 way splitter	Nos	5						
6	Supply & fixing of 6 way splitter	Nos	1						
7	Supplying, installing, testing and commissioning of one television point to be done with television outlet socket and box of the APPROVED make.	Nos	10						
8	Supply/ Installation of analogue Telephone Instrument (Push Button Type) – TEC Approved with accessories Brand: Beetel, Coral/ Secure	Nos	20						
Grand Total									

Note:

1. L1 bidder will be decided from the sum total of unit prices for all line items without tax with three years warranty
2. The above mentioned qty is estimated and for evaluation purpose only, however actual quantity may vary as per the requirement.

SECTION: 7

PERFORMANCE BANK GUARANTEE



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SECTION - 7

PERFORMANCE BANK GUARANTEE

(To be stamped in accordance with Stamp Act)

Ref:

Bank Guarantee No.

Date:

To
Secretariat Gymkhana,
(Address)

Dear Sir,

1. WHEREAS..... (Name of Bidder) hereinafter called "the Bidder" has undertaken, in pursuance of Agreement dated, (hereinafter referred to as "the Agreement for **Selection of Agency for Supply, Installation and Commissioning of Voice & Data Distribution, IP Video Surveillance/ CCTV System and Access Control System including development of Application Software for Sports complex Gymkhana, Gandhinagar on behalf of Secretariat Gymkhana, Road & Building Department, Gandhinagar.** AND WHEREAS it has been stipulated in the said Agreement that the Bidder shall furnish a Bank Guarantee ("the Guarantee") from a scheduled bank for the sum specified therein as security for implementing PROJECT.
2. WHEREAS we _____ ("the Bank", which expression shall be deemed to include its successors and permitted assigns) have agreed to give the Government of Gujarat ("GoG") the Guarantee:

THEREFORE the Bank hereby agrees and affirms as follows:

The Bank hereby irrevocably and unconditionally guarantees the payment of all sums due and payable by the Bidder to Secretariat Gymkhana under the terms of their Agreement dated _____. Provided, however, that the maximum liability of the Bank towards GoG under this Guarantee shall not, under any circumstances, exceed _____ in aggregate.

3. In pursuance of this Guarantee, the Bank shall, immediately upon the receipt of a written notice from GoG in that behalf and without delay/demur or set off, pay to GoG any and all sums demanded by GoG under the said demand notice, subject to the maximum limits specified in Clause 1 above. A notice from GoG to the Bank shall be sent by Registered Post (Acknowledgement Due) at the following address:

Attention Mr. _____.

4. This Guarantee shall come into effect immediately upon execution and shall remain in force for a period of months from the date of its execution. The Bank shall extend the Guarantee for a further period which may mutually be decided by the bidder & Secretariat Gymkhana. The liability of the Bank under the terms of this Guarantee shall not, in any manner whatsoever, be modified, discharged, or otherwise affected by:



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- Any change or amendment to the terms and conditions of the Contract or the execution of any further Agreements.
- Any breach or non-compliance by the Bidder with any of the terms and conditions of any Agreements/credit arrangement, present or future, between Bidder and the Bank.
5. The BANK also agrees that Secretariat Gymkhana at its option shall be entitled to enforce this Guarantee against the Bank as a Principal Debtor, in the first instance without proceeding against the BIDDER and not withstanding any security or other guarantee that Secretariat Gymkhana may have in relation to the Bidder's liabilities.
6. The BANK shall not be released of its obligations under these presents by reason of any act of omission or commission on the part of GoG or any other indulgence shown by GoG or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the BANK.
7. This Guarantee shall be governed by the laws of India and the courts of Ahmedabad shall have jurisdiction in the adjudication of any dispute which may arise hereunder.

Dated this the Day of

Witness

(Signature)

(Name)

(Official Address)

(Signature)

Bank Rubber Stamp

(Name)

Designation with Bank Stamp
Plus Attorney as per Power of
Attorney No.
Dated:

SECTION: 8

ANNEXURES



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SECTION - 8

ANNEXURES

ANNEXURE - I

Bid Processing Fees & Earnest Money Deposit Details

Sr. No.	Item	Amount (In Rs.)	Name of the Bank & Branch	Demand Draft No.
1	Bid Processing Fees			
2	Earnest Money Deposit (E.M.D.)			

ANNEXURE – II

Form E1 Financial Strength of the Applicant

Name of the Bidder:

Financial Year	Turn Over in Crores of Rupees	Audited Accounts submitted? (Yes/No)
2009-10		
2010-11		
2011-12		
Note: Please fill this form and attach the audited Annual Accounts for the last three financial years.		

Form E2 Experience in installed minimum 5 LAN/WAN system with minimum 100 nodes and operational in the campus or different campus.

Name of the Bidder:

Sr. No.	Name of Organization	Start date of the project	Completion Date of the Project	Scope of the work. Also specify the system installed	Specify No. of Active & Passive Components	Value of the project in Rupees	No. of Nodes installed
1							
2							
3							
.							
Note: Please attach purchase order/ contract agreement and completion certificate for each of project details mentioned							



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Experience of executing CCTV/ Surveillance system:

Sr. No.	Name of Organization	Address of the installation	P.O/ W.O. Date	No. of CCTV Installed	Value of the project in Rupees	Supporting document attached or nor?

Note: Please attach purchase order/ contract agreement and completion certificate for each of project details mentioned

Experience in Data networking involving the IP camera & Access Control System including software:

Sr. No.	Name of Organization	Address of the installation	P.O/ W.O. Date	Scope of the work. Also specify the system installed	Value of the project in Rupees	Supporting document attached or nor?

Note: Please attach purchase order/ contract agreement and completion certificate for each of project details mentioned

Form E3 Office in GUJARAT

Sr. No.	Address	Contact Person	Contact nos.	Type of supporting document attached

Note: You may mention more than one office (if applicable) by adding multiple rows which may be added by "NUMBER OF ROWS TO ADD".

Form E4 Engineer's Details/ Manpower Details

Sr. No.	Name of Engineer	Date of Joining the Organization	Engineer's Contact Details & P.F. No.	Education Qualification	Experience Details	Involved in project (Name of project)

Note: attach the necessary supporting proof/document for above details.

Form E5 Authorization Letters

Item	Make & Model	Name of OEM	Authorization letter attached? (Yes/No)



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Form E6 **Experience in Software Development at last 3 years**

Name of the Bidder:

Sr. No.	Name of Organization	Start date of the project	Completion Date of the Project	Scope of the work.	Value of the project in Rupees
1					
2					
3					
.					
Note: Please attach purchase order/ work order to substantiate the experience of 3 years					

Form E7 **Experience in developing web based or server-client based software for either any club/ sports complex/ building/ large campus facilities/ shopping mall.**

Sr. No.	Name of Organization	Start date of the project	Completion Date of the Project	Scope of the work.	Value of the project in Rupees
1					
2					
3					
.					
Note: Please attach purchase order/ contract agreement and completion certificate for each of project details mentioned					